DR-590T/E

Service Manual

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SPECIFICATIONS

■ General Frequency coverage············• DR-590T (U.S. Version) 144.000 - 147.995MHz (TX), 137.000 - 173.995MHz (RX), 440.000 - 449.995MHz (TX), 410.000 - 469.995MHz (RX) • DR-590E (Europe Version) 144.000 - 145.995MHz (TX & RX) 430.000 - 439.995MHz (TX & RX) Antenna Impedance ······50 Ohms, unbalanced Power Supply Requirement ······13.8 Volts D.C. Current Drain at 13.8VReceiving Squelched: does not exceed 800mA Trans-mitting High: 45W approx. 9.5A Middle: 10W approx. 4.5A Low: 5W approx. 3.5A UHF High: 35W approx. 10A Middle: 8W approx. 5A Low: 4W approx. 4A Dimension150mm(W) X 50mm(H) X 178mm(D) (5-9/10") (2") (7") WeightApprox. 1.5kgs (3.3lbs.) ■ Transmitter Output Power ·······VHF High: Approx. 45W Middle: 10W Low: 5W UHF High: Approx. 35W Middle: 8W

Emission Mode ······F3 (FM)

Modulation System ······Variable Reactance F.M.

Max. Frequency Deviation ····· ±5kHz

Operating Mode ·····Simplex

Duplex:

5kHz and 12.5kHz steps between 0 and 10.995MHz from receive

frequency at 144-147.995 MHz and 440-449.995 MHz

DTMF Encoder ······Built-in (DR-590T only)

■Receiver

Receiving SystemSuperheterodyne, Dual Conversion

Modulation Acceptance ······F3 (FM)

Intermediate Frequency1st 21.6MHz and 455kHz at VHF

1st 30.825MHz and 455kHz at UHF

±12kHz or under at -60dB

Low: 4W

Audio Power Output······Approx. 2.5W Speaker Impedance·····8 Ohms

MODEL CHART

	DD 500T	DD 5005
Туре	DR-590T	DR-590E
Tone Burst	Not Available	1.750Hz
Subaudible Tone	Encode Included, Decode Optional	Optional
DTMF	Included (16 Buttons)	Optional

Note: Specifications are approximate and are subject to change without notice or obligation.

PARTS LIST

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
	VH	F MAIN Unit	C90	CS0061	Chip Tantal, TMC1V224TR	R38	RK0081	Chip R, MCR10EZHJ564E
			C91	CU8016	Chip C, C2012B1H102K	R39	RK0042	Chip R, MCR10EZHJ332E
21	CU9007	Chip C, CC3216CH1H330J	C92	CU8016	Chip C, C2012B1H102K	R40	RK0047	Chip R, MCR10EZHJ562E
22	CU8016	Chip C. C2012B1H102K	C93	CU8016	Chip C, C2012B1H102K	R41	RK0056	Chip R, MCR10EZHJ223E
23	CU0060	Chip C.C2012CH1H470J	C94	CU8016	Chip C, C2012B1H102K	R42	RK0056	Chip R, MCR10EZHJ223E
24	CU8016	Chip C, C2012B1H102K	C95	CU0062	Chip C, C2012CH1H150J	R43	RK0062	Chip R, MCR10EZHJ473E
26	CU0069	Chip C, C2012CH1H680J	C96	CU0051	Chip C, C2012CH1H471K	R44	RK0035	Chip R, MCR10EZHJ102E
27	CU0060	Chip C, C2012CH1H470J	C97	CU8016	Chip C, C2012B1H102K	R45	RK0035	Chip R, MCR10EZHJ102E
28	CU0067	Chip C, C2012CH1H390J	C98	CU8016	Chip C, C2012B1H102K	R46	RK0018	Chip R, MCR10EZHJ101E
211	CU8016	Chip C, C2012B1H102K	C99	CU8016	Chip C, C2012B1H102K	R47	RK0081	Chip R, MCR10EZHJ564E
012	CU0071	Chip C, C2012CH1H101J	C100	CU8016	Chip C, C2012B1H102K	R48	RK0052	Chip R, MCR10EZHJ103E
C13	CU8016	Chip C, C2012B1H102K	C101	CU0003	Chip C, C2012CH1H020C	R49	RK0039	Chip R, MCR10EZHJ222E
C14	CU8016	Chip C.C2012B1H102K	C102	CU8016	Chip C, C2012B1H102K	R50	RK0023	Chip R, MCR10EZHJ271E Chip R. MCR10EZHJ223E
015	CU0062	Chip C, C2012CH1H150J	C104	CE0312	Chemical C, 16CV 10B	R51 R52	RK0056 RK0062	Chip R, MCR10EZHJ473E
217	CU8016	Chip C. C2012B1H102K	C105	CU8016	Chip C, C2012B1H102K	R53	RK0052	Chip R, MCR10EZHJ103E
C18	CU0060	Chip C, C2012CH1H470J	C106	CU8038	Chip C, CM316Y5V105Z25VAT	R54	RK0081	Chip R, MCR10EZHJ564E
C19	CU0060	Chip C, C2012CH1H470J	C107	CE0312	Chemical C, 16CV 10B	R55	RK0045	Chip R, MCR10EZHJ472E
220	CE0030	Chemical C, 16MS7 10	C108	CU8038	Chip C, CM316Y5V105Z25VAT	R56	RK0079	Chip R, MCR10EZHJ474E
21	CU8032	Chip C, C2012B1E223K	C109	CE0124	Chemical C, 16MS7 47	R57	RK0079	Chip R, MCR10EZHJ222E
22	CU8003	Chip C, C2012JF1E104Z	C110	CE0042	Chemical C, 16V 220 µF			Chip R, MCR10EZHJ222E
223	CU8003	Chip C, C2012JF1E104Z	C111	CE0124	Chemical C, 16MS7 47	R58 R59	RK0039	Chip R, MCR10EZHJ000E
224	CU8003	Chip C, C2012JF1E104Z	C112	CE0124	Chemical C, 16MS7 47		RK0107	
C26	CU8016	Chip C, C2012B1H102K	C113	CE0124	Chemical C, 16MS7 47	R60	RK0069	Chip R, MCR10EZHJ104E
228	CU8016	Chip C, C2012B1H102K	C114	CE0181	Chemical C, 10TWSS 470	R61	RK0039	Chip R, MCR10EZHJ222E
229	CU8016	Chip C, C2012B1H102K	C115	CE0181	Chemical C, 10TWSS 470	R62	RK0042	Chip R, MCR10EZHJ332E
30	CU8028	Chip C, C2012B1H103K	C116	CU8003	Chip C, C2012JF1E104Z	R63	RK0069	Chip R, MCR10EZHJ104E
231	CS0060	Chip Tantal, TMC1E474	C117	CU8003	Chip C, C2012JF1E104Z	R66	RK0045	Chip R, MCR10EZHJ472E
35	CU8003	Chip C, C2012JF1E104Z	C118	CE0192	Chemical C, 16TWSS 470	R67	RK0001	Chip R, MCR10EZHJ100E
236	CU0045	Chip C, C2012CH1H271K	C119	CU8016	Chip C, C2012B1H102K	R68	RK0056	Chip R, MCR10EZHJ223E
37	CU8016	Chip C, C2012B1H102K	C120	CU0071	Chip C, C2012CH1H101J	R69	RK0052	Chip R, MCR10EZHJ103E
238	CS0061	Chip Tantal, TMC1V224	C123	CU0051	Chip C, C2012CH1H471K	R70	RK0035	Chip R, MCR10EZHJ102E
239	CS0061	Chip Tantal, TMC1V224	C124	CU0003	Chip C, C2012CH1H020C	R71	RK0018	Chip R, MCR10EZHJ101E
240	CU8035	Chip C, C2012B1E393K	C125	CU8032	Chip C, C2012B1E223K	R72	RK0076	Chip R, MCR10EZHJ334E
241	CU8028	Chip C, C2012B1H103K	C126	CU0011	Chip C, C2012CH1H100D	R73	RK0039	Chip R, MCR10EZHJ222E
242	CU8034	Chip C, C2012X7R1E333K	C127	C00066	Chip C, C2012CH1H330J	R74	RK0018	Chip R, MCR10EZHJ101E
243	CU8035	Chip C, C2012B1E393K	C128	CU0067	Chip C. C2012CH1H390J	R75	RK0052	Chip R, MCR10EZHJ103E
244	CU8025	Chip C, C2012B1H562K	C129	CU8016	Chip C.C2012B1H102K	R76	RK0052	Chip R, MCR10EZHJ103E
245	CU8025	Chip C, C2012B1H562K	C130	CU8003	Chip C, C2012JF1E104Z	R77	RK0038	Chip R, MCR10EZHJ182E
246	CU8016	Chip C, C2012B1H102K	C131	CU0051	Chip C, C2012CH1H471K	R78	RK0056	Chip R, MCR10EZHJ223E
247	CE0124	Chemical C, 16MS7 47	C132	CU8016	Chip C, C2012B1H102K	R79	RK0038	Chip R, MCR10EZHJ182E
C48	CU8038	Chip C, CM316Y5V105Z25VA	C133	CU0006	Chip C, C2012CH1H050C	R80	RK0052	Chip R, MCR10EZHJ103E
C49	CU8038	Chip C, CM316Y5V105Z25VA	C134	CE0312	Chemical C, 16CV 10B	R81	RK0052	Chip R, MCR10EZHJ103E
C50	CU8016	Chip C, C2012B1H102K	C136	CU8016	Chip C, C2012B1H102K	R82	RK0056	Chip R, MCR10EZHJ223E
C51	CU8016	Chip C, C2012B1H102K	C137	CE0312	Chemical C, 16CV 10B	R83	RK0018	Chip R, MCR10EZHJ101E
C52	CU8016	Chip C, C2012B1H102K	C139	CU0066	Chip C, C2012CH1H330J	R84	RK0039	Chip R, MCR10EZHJ222E
C53	CU8016	Chip C, C2012B1H102K	C140	CU8034	Chip C, C2012X7R1E333K	R85	RK0018	Chip R, MCR10EZHJ101E
C54	CU8028	Chip C, C2012B1H103K	C141	CU8016	Chip C, C2012B1H102K	R86	RK0035	Chip R, MCR10EZHJ102E
255	CU8028	Chip C, C2012B1H103K	C142	CE0033	Chemical C, 10MV 10UWA	R87	RK0056	Chip R, MCR10EZHJ223E
256	CU8016	Chip C, C2012B1H102K	C143	CU8016	Chip C, C2012B1H102K	R88	RK0045	Chip R, MCR10EZHJ472E
C57	CU8016	Chip C, C2012B1H102K	C145	CU8016	Chip C, C2012B1H102K	R89	RK0014	Chip R, MCR10EZHJ680E
C58	CU8016	Chip C, C2012B1H102K				R90	RK0018	Chip R, MCR10EZHJ101E
259	CU8016	Chip C, C2012B1H102K	R1	RK0059	Chip R, MCR10EZHJ333E	R91	RK0025	Chip R, MCR10EZHJ331E
260	CU0004	Chip C, C2012CH1H030C	R2	RK0052	Chip R, MCR10EZHJ103E	R92	RK0011	Chip R, MCR10EZHJ470E
62	CU0068	Chip C, C2012CH1H560J	R3	RK0018	Chip R, MCR10EZHJ101E	R93	RK0037	Chip R, MCR10EZHJ152E
C 63	CU8016	Chip C, C2012B1H102K	R4	RK0069	Chip R, MCR10EZHJ104E	R94	RK0008	Chip R, MCR10EZHJ330E
264	CE0312	Chemical C, 16CV 10B	R5	RK0011	Chip R, MCR10EZHJ470E	R95	RK0011	Chip R, MCR10EZHJ470E
C65	CS0049	Chip Tantal, TMC1C105	R6	RK0018	Chip R, MCR10EZHJ101E	R96	RK0022	Chip R, MCR10EZHJ221E
66	CU8016	Chip C, C2012B1H102K	R8	RK0069	Chip R, MCR10EZHJ104E	R97	RK0128	Chip R, MCR10EZHJ5R6E
67	CU0064	Chip C, C2012CH1H220J	R9	RK0069	Chip R, MCR10EZHJ104E	R98	RK0022	Chip R, MCR10EZHJ221E
268	CU0071	Chip C, C2012CH1H101J	R10	RK0069	Chip R, MCR10EZHJ104E	R99	RK2010	Chip R, MCR10EZHJ330E
C 69	CU0043	Chip C, C2012CH1H221K	R11	RK0035	Chip R, MCR10EZHJ102E	R100	RK0035	Chip R, MCR10EZHJ102E
70	CU8028	Chip C, C2012B1H103K	R12	RK0056	Chip R, MCR10EZHJ223E	R101	RK0056	Chip R, MCR10EZHJ223E
71	CU8016	Chip C, C2012B1H102K	R13	RK0011	Chip R. MCR10EZHJ470E	R102	RK0052	Chip R. MCR10EZHJ103E
272	CU0006	Chip C, C2012CH1H050C	R14	RK0045	Chip R, MCR10EZHJ472E	R103	RK0052	Chip R, MCR10EZHJ103E
273	CU8016	Chip C, C2012B1H102K	R15	RK0074	Chip R, MCR10EZHJ274E	R104	RK0056	Chip R, MCR10EZHJ223E
C74	CU8028	Chip C, C2012B1H103K	R16	RK0018	Chip R, MCR10EZHJ101E	R105	RK2000	Chip R, MCR50EZHJ4R7E
C75	CU8028	Chip C, C2012B1H103K	R17	RK0018	Chip R, MCR10EZHJ101E	R106	RK0011	Chip R. MCR10EZHJ470E
C76	CU0071	Chip C, C2012CH1H101J	R18	RK0018	Chip R, MCR10EZHJ101E	R107	RK0130	Chip R, MCR10EZHJ4R7E
C77	CU0071	Chip C, C2012CH1H101J	R19	RK0062	Chip R, MCR10EZHJ473E	R108	RK0130	Chip R, MCR10EZHJ4R7E
C78	CU0071	Chip C, C2012CH1H101J	R23	RK0028	Chip R, MCR10EZHJ471E	R111	RK0011	Chip R, MCR10EZHJ470E
C79	CU8038	Chip C, CM316Y5V105Z25VAT	R24	RK0076	Chip R, MCR10EZHJ334E	R112	RK0037	Chip R, MCR10EZHJ152E
080	CU8016	Chip C, C2012B1H102K	R25	RK0035	Chip R, MCR10EZHJ102E	R113	RK0045	Chip R, MCR10EZHJ472E
C81	CU0066	Chip C, C2012CH1H330J	R26	RK0056	Chip R, MCR10EZHJ223E	R114	RK0023	Chip R, MCR10EZHJ271E
C82	CS0049	Chip Tantal, TMC1C105	R27	RK0035	Chip R, MCR10EZHJ102E	R115	RK0023	Chip R, MCR10EZHJ271E
C83	CU8016	Chip C, C2012B1H102K	R28	RK0076	Chip R. MCR10EZHJ334E	R116	RK0069	Chip R, MCRTOEZHJ104E
C84	CU8016	Chip C, C2012B1H102K	R29	RK0044	Chip R, MCR10EZHJ392E	R117	RK0070	Chip R, MCR10EZHJ124E
C85	CE0315	Chemical C, 16CV 47B	R30	RK0069	Chip R, MCR10EZHJ104E	R119	RK0052	Chip R, MCR10EZHJ103E
C86	CU0051	Chip C, C2012CH1H471K	R31	RK0035	Chip R, MCR10EZHJ102E	R120	RK1107	Chip R, MCR18EZHJ000E
C87	CU8016	Chip C, C2012B1H102K	R32	RK0052	Chip R, MCR10EZHJ103E	R121	RK0035	Chip R, MCR10EZHJ102E
C88	CU8016	Chip C, C2012B1H102K	R33	RK0069	Chip R, MCR10EZHJ104E	R122	RK0071	Chip R, MCR10EZHJ154E
C89	CU0051	Chip C, C2012CH1H471K	R35	RK0025	Chip R, MCR10EZHJ331E	R123	RK2000	Chip R, MCR50EZHJ4R7E
	1 000001	5.14p 0, 020120111177111	11			1		

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
R124	RK0059	Chip R, MCR10EZHJ333E	L3	QA0066	Coil. 144M S-10	C64	CU8016	Chip C, C2012B1H102K
R125	RK0073	Chip R, MCR10EZHJ224E	L4	QA0066	Coil, 144M S-10	C65	CU0071	Chip C, C2012CH1H101J
11120	Micors	WILD IN WORLD CENOZETE	15	QA0005	Coil, 40092	C66	CU0071	Chip C, C2012CH1H101J
TP1	UE0041	Pin Jack, TMP-J01X-V6	L6	QA0005	Coil, 40092	C67	CU0071	Chip C, C2012CH1H101J
TP2	UE0047	Round Pin, R9 ×10	L7	QA0044	Coil, 455kHz	C68	CU8038	Chip C, CM316Y5V105Z25VA
TP3	UE0047	Round Pin, R9 ×10	1 [8	QA0058	Coil	C69	CU8016	Chip C, C2012B1H102K
TP4	UE0047	Round Pin, R9 ×10	L9	QC0034	Chip Coil, NL322522T-R39M	C70	CU8016	Chip C, C2012B1H102K
1''-	OLUU-1	Thousand Till, 110 X 10	L10	QC0065	Chip Coil, NL322522T-068M	C71	CU0004	Chip C, C2012CH1H030C
CN30	UE0043	Post With Base, PI22A02M	L11	QC0067	Chip Coil, NL322522T-R10M	C72	CU8016	Chip C, C2012B1H102K
CN31	UE0109	Connector, 52030-1810	L12	QC0063	Chip Coil, NL322522T-047M	C73	CU0006	Chip C, C2012CH1H050C
CN32	UE0113	Connector, 5512-03A	- ' -	400000	G.11p G011, NEGEZGEZ, G17	C74	CU8016	Chip C, C2012B1H102K
CN33	UE0108	Connector, 6FE-BT	VR1	RH0036	VR, CVR-42A-102AD	C75	CU0051	Chip C, C2012CH1H471K
CN34	UE0075	Pin Jack, TMP-J01X-A2	VR2	RH0031	VR, CVR-42A-103AD	C76	CU0051	Chip C, C2012CH1H471K
CN35	UE0075	Pin Jack, TMP-J01X-A2	VR3	RH0038	VR, CVR-42A-473AD	C77	CU0051	Chip C, C2012CH1H471K
	02000	1211 0001, 1111 00111 11			,	C78	CU0051	Chip C, C2012CH1H471K
IC1	XA0070	IC, MC3361D	TC1	CT0031	Trimmer, CTZ-05A	C79	CU0006	Chip C, C2012CH1H050C
IC2	XA0033	IC, µPC393G	TC2	CT0030	Trimmer, CTZ-20C	C80	CU0051	Chip C, C2012CH1H471K
IC3	XA0114	IC, µ PD6345GS	TC3	CT0030	Trimmer, CTZ-20C	C81	CU0051	Chip C, C2012CH1H471K
IC4	XA0116	IC. LA4445	'**			C82	CU0063	Chip C, C2012CH1H180J
IC5	XA0115	IC, TC4S66F	-			C83	CU0004	Chip C, C2012CH1H030C
IC6	XA0115	IC, TC4S66F		UH	F MAIN Unit	C84	CU0051	Chip C, C2012CH1H471K
IC7	XA0087	IC, TC4S01F	<u> </u>	T		C85	CU0062	Chip C, C2012CH1H150J
			C1	CU8016	Chip C, C2012B1H102K	C86	CU0051	Chip C, C2012CH1H471K
D1	XD0112	Pin-D, 1SV128	C2	CU0006	Chip C, C2012CH1H050C	C87	CU0051	Chip C, C2012CH1H471K
D2	XD0100	Varicap, 1SV164	C3	CU8028	Chip C, C2012CH1H103K	C88	CE0312	Chemical C, 16CV10B
D3	XD0100	Varicap, 1SV164	C4	CU0071	Chip C, C2012CH1H101J	C89	CE0312	Chemical C, 16CV10B
D4	XD0100	Varicap, 1SV164	C5	CU0003	Chip C, C2012CH1H020C	C90	CU0051	Chip C, C2012CH1H471K
D5	XD0100	Varicap, 1SV164	C6	CU8016	Chip C, C2012B1H102K	C91	CU0051	Chip C, C2012CH1H471K
D7	XD0100	Varicap, 1SV164	C7	CU0067	Chip C, C2012CH1H390J	C92	CU0051	Chip C, C2012CH1H471K
D8	XD0100	Varicap, 1SV164	C8	CU8016	Chip C, C2012B1H102K	C93	CU8016	Chip C, C2012B1H102K
D9	XD0118	Diode, MA716	C9	CU8016	Chip C, C2012B1H102K	C94	CU8016	Chip C, C2012B1H102K
D11	XD0118	Diode, MA716	C11	CU0066	Chip C, C2012CH1H330J	C95	CU8016	Chip C, C2012B1H102K
D12	XD0120	Diode, MA704WK	C12	CU0071	Chip C, C2012CH1H101J	C96	CE0030	Chemical C, 16VMS7 10
D13	XD0097	Diode, 1SS268	C13	CU0006	Chip C, C2012CH1H050C	C97	CU8028	Chip C, C2012CH1H103K
D14	XD0041	Diode, DAP202K	C14	CU8016	Chip C, C2012B1H102K	C98	CU8028	Chip C, C2012CH1H103K
D15	XD0041	Diode, DAP202K	C15	CU8016	Chip C, C2012B1H102K	C99	CS0049	Chip Tantal, TMC1C105
D16	XD0040	Diode, DAN202K	C16	CU0005	Chip C, C2012CH1H040C	C100	CE0312	Chemical C, 16CV10B
D17	XD0113	Zener Diode, 02CZ4, 3Y	C18	CU0060	Chip C, C2012CH1H470J	C101	CS0049	Chip Tantal, TMC1C105
D18	XD0104	Zener Diode, 02CZ6, 2Y	C19	CU0011	Chip C, C2012CH1H100D	C102	CU8028	Chip C, C2012CH1H103K
D20	XD0103	Diode, 1SS226	C20	CU8016	Chip C, C2012B1H102K	C103	CU8028	Chip C, C2012CH1H103K
D21	XD0112	Pin-D, 1SV128	C21	CU0067	Chip C, C2012CH1H390J	C104	CE0312	Chemical C, 16CV10B
			C22	CU8028	Chip C, C2012CH1H103K	C105	CE0030	Chemical C, 16VMS7 10
Q1	XE0013	FET, 3SK184S	C23	CU8003	Chip C, C2012JF1E104Z	C106	CE0312	Chemical C, 16CV108
Q2	XE0013	FET, 3SK184S	C24	CU8003	Chip C, C2012JF1E104Z	C107	CU0071	Chip C, C2012CH1H101J
Q4	XT0081	Transistor, 2SC2714T	C25	CU0051	Chip C, C2012CH1H471K	C108	CU8032	Chip C, C2012B1E223K
Q5	XT0037	Transistor, 2SC2412KR	C26	CU8032	Chip C, C2012B1E223K	C110	CU8016	Chip C, C2012B1H102K
Q6	XT0037	Transistor, 2SC2412KR	C27	CU8003	Chip C, C2012JF1E104Z	C111	CU0051	Chip C, C2012CH1H471K
Q7	XT0037	Transistor, 2SC2412KR	C28	CU0067	Chip C, C2012CH1H390J	C112	CU0067	Chip C, C2012CH1H390J
Q8	XT0037	Transistor, 2SC2412KR	C30	CU0071	Chip C, C2012CH1H101J	C113	CE0312	Chemical C, 16CV10B
Q10	XT0037	Transistor, 2SC2412KR	C31	CU8028 CS0060	Chip C, C2012CH1H103K	C114	CU8016	Chip C, C2012B1H102K
Q11	XT0037	Transistor, 2SC2412KR	C32	CU0065	Chip Tantal, TMC1E474	C115	CU8016	Chip C, C2012B1H102K
Q12	XT0077	Transistor, 2SC3326AL	C33	CU8003	Chip C, C2012CH1H270J Chip C, C2012JF1E104Z	C116	CU8016	Chip C, C2012B1H102K
Q13	XU0014	Digital Transistor,	C34		Chip C, C2012CH1H221K	C117	CU8016	Chip C, C2012B1H102K
1		DTC144EK	C35	CU0043 CU8016	Chip C, C2012B1H102K	C118	CU8016	Chip C, C2012B1H102K
Q14	XU0028	Digital Transistor,	C37	CS0061	Chip Tantal, TMC1V224	C119	CU0003	Chip C, C2012CH1H020C
		FMC2	C37	CS0061	Chip Tantal, MCTV224	C120	CU8016	Chip C, C2012B1H102K
Q15	XT0061	Transistor, 2SB11320	C39	CU8035	Chip C. C2012B1E393K	C121 C122	CU8016 CU8016	Chip C, C2012B1H102K Chip C, C2012B1H102K
Q16	XT0030	Transistor, 2SC3356BR25	C40	CU8028	Chip C, C2012CH1H103K	C124	CS0049	Chip Tantal, TMC1C105
Q17	XT0030	Transistor, 2SC3356BR25	C41	CU8034	Chip C, C2012X7R1E333K	1 1		
Q18	XT0048	Transistor, 2SC3357RE	C42	CU8035	Chip C, C2012B1E393K	C125	CU8016	Chip C, C2012B1H102K
Q19	XT0078	Transistor, 2803369	C43	CU8025	Chip C, C2012B1H562K	C126	CU8016	Chip C, C2012B1H102K
Q20	XT0061	Transistor, 2SB11320	C43	CU8025	Chip C, C2012B1H562K	C127	CE0312	Chemical C, 16CV10B
Q22	XU0019	Digital Transistor,	C45	CU8038	Chip C, CM316Y5V105Z25VA	C128	CU8016	Chip C, C2012B1H102K
000	VTC ACT	DTA144YK	C46	CU8016	Chip C. C2012B1H102K	C129	CU8016	Chip C, C2012B1H102K
023	XT0037	Transistor, 2SC2412KR	C47	CE0124	Chemical C, 16VMS7 47	C130	CU0060	Chip C, C2012CH1H470J
024	XT0037	Transistor, 2SC2412KR	C48	CU8038	Chip C. CM316Y5V105Z25VA	C131	CE0124	Chemical C, 16VMS7 47
Q27	XU0014	Digital Transistor,	C49	CU0051	Chip C, C2012CH1H471K	C132	CU0071	Chip C, C2012CH1H101J
000	VTCCC	DTC144EK	C50	CU0051	Chip C, C2012CH1H471K	C133	CU8016	Chip C, C2012B1H102K
Q31	XT0037	Transistor, 2SC2412KR	C51	CU8016	Chip C, C2012B1H102K	C134	CU0071	Chip C, C2012CH1H101J
	VE0.00:	VI.C.1. BEIDVESES	C52	CU8016	Chip C, C2012B1H102K	C135	CU0003	Chip C, C2012CH1H020C
FL1	XF0001	X'fil, DFM21615B1	C54	CS0049	Chip Tantal, TMC1C105	n.	DVAACA	Chi- D MOD10571110005
FL2	XC0001	Ceramic Filter, CFW455F	C55	CU8016	Chip C, C2012B1H102K	R1	RK0059	Chip R, MCR10EZHJ333E
V1	VAACCA		C56	CE0312	Chemical C, 16CV10B	R2	RK0069	Chip R, MCR10EZHJ104E
X1	XQ0023	Ceramic Filter,	C57	CU8016	Chip C, C2012B1H102K	R3	RK0018	Chip R, MCR10EZHJ101E
Vn.	VOCACA .	UM-1 22.055MHz	C58	CE0312	Chemical C, 16CV10B	R4	RK0018	Chip R, MCR10EZHJ101E
X2	XQ0038	Ceramic Filter,	C59	CU8016	Chip C, C2012B1H102K	R5	RK0005	Chip R, MCR10EZHJ220E
T1/4	V0000	HC-49/U, 12. 8MHz	C60	CE0315	Chemical C, 16CV47B	R6	RK0018	Chip R, MCR10EZHJ101E
TH1	XS0004	Thermistor, TD5A150D	C61	CU8016	Chip C, C2012B1H102K	R8	RK0056	Chip R, MCR10EZHJ223E
	04665-		C62	CU8016	Chip C, C2012B1H102K	R9	RK0035	Chip R, MCR10EZHJ102E
L1	QA0057	Coil, Front End	C63	CS0065	Chip Tantal, TMC1D684	R10	RK0038	Chip R, MCR10EZHJ182E
L2	QA0066	Coil, 144M S-10	***			R11	RK0052	Chip R, MCR10EZHJ103E
				L		L		

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
R12	RK0022	Chip R, MCR10EZHJ221E	R96	RK0045	Chip R, MCR10EZHJ472E	Q4	XT0030	Transistor, 2SC3356BR25
R13	RK0042	Chip R. MCR10EZHJ332E	R98	RK0070	Chip R, MCR10EZHJ124E	Q5	XT0037	Transistor, 2SC2412KR
R14	RK0045	Chip R. MCR10EZHJ472E	R99	RK0052	Chip R, MCR10EZHJ103E	06	XT0037	Transistor, 2SC2412KR
R15	RK0069	Chip R. MCR10EZHJ104E	R100	RK0038	Chip R, MCR10EZHJ182E	Q7	XT0037	Transistor, 2SC2412KR
R16	RK0035	Chip R. MCR10EZHJ102E	R101	RK2006	Chip R, MCR50EZHJ150E	Q8	XT0037	Transistor, 2SC2412KR
R17	RK0052	Chip R. MCR10EZHJ103E	R102	RK0073	Chip R, MCR10EZHJ224E	Q11	XU0018	Digital Transistor,
R18	RK0056	Chip R, MCR10EZHJ223E	R103	RK0036	Chip R, MCR10EZHJ122E			DTC124EK
R19	RK0048	Chip R, MCR10EZHJ682E	R104	RK0069	Chip R, MCR10EZHJ104E	Q12	XT0077	Transistor, 2SC3326A
R20	RK0076	Chip R, MCR10EZHJ334E	R105	RK0107	Chip R, MCR10EZHJ000E	Q13	XU0014	Digital Transistor,
R21	RK0044	Chip R, MCR10EZHJ392E						DTC144EK
R22	RK0076	Chip R, MCR10EZHJ334E	VR1	RH0031	VR, CVR-42A-103AD	014	XU0014	Digital Transistor,
R23	RK0044	Chip R, MCR10EZHJ392E	VR2	RH0038	VR, CVR-42A-473AD			DTC144EK
R24	RK0052	Chip R, MCR10EZHJ103E	VR3	RH0031	VR, CVR-42A-103AD	Q15	XT0061	Transistor, 2SB11320
R25	RK0069	Chip R, MCR10EZHJ104E	VR4	RH0051	VR, CVR-42A-472AD	Q16	XT0030	Transistor, 2SC3356BR25
R26	RK0028	Chip R, MCR10EZHJ471E	VR5	RH0036	VR, CVR-42A-102AD	Q17	XT0030	Transistor, 2SC3356BR25
R27	RK0056	Chip R, MCR10EZHJ223E				Q18	XT0048	Transistor, 2\$C3357RE
R28	RK0081	Chip R, MCR10EZHJ564E	JP1	RD0017	R, JPW01FC05 0Ω	Q19	XT0078	Transistor, 28C3369
R29	RK0042	Chip R, MCR10EZHJ332E				Q20	XU0014	Digital Transistor,
R30	RK0047	Chip R, MCR10EZHJ562E	TC1	CT0031	Trimmer, CTZ-05A	021	XT0061	DTC144EK Transistor,2SB1132Q
R31	RK0062	Chip R, MCR10EZHJ473E	TC2	CT0031	Trimmer, CTZ-05A			
R32	RK0035	Chip R, MCR10EZHJ102E	11	040000	DE 0-11 410 00404/T 3 \	Q22	XU0019	Digital Transistor, DTC124EK
R33	RK0035	Chip R, MCR10EZHJ102E	L!	QA0069	HF Coil, 110-90124(T only)	Q23	XT0037	Transistor, 2SC2412KR
R34	RK0018	Chip R, MCR10EZHJ101E		QA0061	HF Coil, 110-7Hz-440C	Q24	XT0037	Transistor, 2SC2412KR
R35	RK0056	Chip R, MCR10EZHJ223E	11.2	040000	(E only)	Q24 Q26	XT0037	Transistor, 2SA1037KT146R
R36	RK0044	Chip R, MCR10EZHJ392E	L2	QA0069	HF Coil, 110-90124(T only)	027	XT0038	Transistor, 2SC2412KR
R37	RK0081	Chip R, MCR10EZHJ564E	L2	QA0061	HF Coil, 110-7Hz-440C	Q28	XT0037	Transistor, 2SA1307Y
R38	RK0039	Chip R, MCR10EZHJ222E	,,	040040	(E only)	Q29	XU0018	Digital Transistor,
R39	RK0023	Chip R, MCR10EZHJ271E	L3	QA0042	Coil, 30R8MIF	423	7.00010	DTC124EK
R40	RK0056	Chip R, MCR10EZHJ223E	L5	QA0044	Coil, 455KHZ	030	XU0014	Digital Transistor,
R41	RK0062	Chip R, MCR10EZHJ473E	L6 L7	QK0036 QC0056	Chip L. NL322522T-012M	""	7.50014	DTC144EK
R43	RK0081	Chip R, MCR10EZHJ564E		QC0056	Chip L, NL3225227 012M	Q31	XT0061	Transistor, 2SB1132Q
R44	RK0045 RK0079	Chip R, MCR10EZHJ472E	L8 L9	QC0062	Chip L, NL3225227 013M	Q32	XT0030	Transistor, 2SC3356BR25
R45 R46	RK0079	Chip R, MCR10EZHJ474E Chip R, MCR10EZHJ222E	L10	QC0039	Chip L, NL322522T - 1R0M	032	XU0014	Digital Transistor,
R47	RK0035	Chip R, MCR10EZHJ102E	L10	QC0059	Chip L, NL322522T 110M		/ / /	DTC144EK
R48	RK0107	Chip R, MCR10EZHJ000E	L12	QC0055	Chip L, NL322522T-010M	FL1	XF0006	X'tal Filter, 30.8M15AUM-1
R49	RK0039	Chip R, MCR10EZHJ222E	L13	QC0055	Chip L, NL322522T-010M	FL2	XC0001	Ceramic Filter, CFW455F
R51	RK0006	Chip R, MCR10EZHJ270E	L13	QK0037	Coil, 0R6-3-2R5RM			
R52	RK0045	Chip R, MCR10EZHJ472E	L15	QK0038	Coil, 0R7-3-1R5RM	X1	XQ0034	X'tal, HC-49/T 30.4MHz
R53	RK0006	Chip R, MCR10EZHJ270E	L17	QC0061	Chip L, NL322522T-033M			
R54	RK0056	Chip R, MCR10EZHJ223E	L18	QC0055	Chip L. NL322522T-010M		1/	UE DA UE
R55	RK0056	Chip R, MCR10EZHJ223E		40000	Grip C, NCOZZOZZI OTOM		V	HF PA Unit
R56	RK0035	Chip R, MCR10EZHJ102E	TH1	XS0004	Thermistor, TD5A150D	C1	CU8016	Chip C, C2012B1H102K
R57	RK0038	Chip R. MCR10EZHJ182E	TH2	XS0008	Thermistor, TD5C220D	C2	CE0201	Chemical C, 16MV10SZ
R58	RK0052	Chip R. MCR10EZHJ103E	[] ''''	700000		C3	CU8016	Chip C, C2012B1H102K
R59	RK0052	Chip R, MCR10EZHJ103E	TP1	UE0041	Pin Jack, TMP-J01X-V6	C4	CE0201	Chemical C, 16MV10SZ
R60	RK0052	Chip R, MCR10EZHJ103E	TP2	UE0047	Round Pin, R9 ×10	C5	CC5022	Ceramic C, HM60SJSL270K
R61	RK0052	Chip R, MCR10EZHJ103E	TP3	UE0047	Round Pin, R9 ×10	C6	CU8016	Chip C, C2012B1H102K
R62	RK0056	Chip R, MCR10EZHJ223E	TP4	UE0047	Round Pin, R9 ×10	C7	CC5021	Ceramic C, HM60SJ220J
R63	RK0018	Chip R, MCR10EZHJ101E				C8	CU0006	Chip C, C2012CH1H050C
R65	RK0018	Chip R, MCR10EZHJ101E	CN51	UE0109	Connector, 52030-1810	C9	CU0002	Chip C, C2012CH1H010C
R66	RK0039	Chip R, MCR10EZHJ222E	CN52	UE0111	Connector, 5513-03CPB	C10	CC5023	Ceramic C, HM60SJ390J
R67	RK0035	Chip R, MCR10EZHJ102E	CN53	UE0108	Connector, 6FE-BT	C11	CU7003	Chip C, C3CK1NAR102K
R68	RK0045	Chip R, MCR10EZHJ472E	CN54	UE0075	Pin Jack, TMP-J01X-A2	C12	CC5023	Ceramic C, HM60SJ390J
R69	RK0035	Chip R, MCR10EZHJ102E .	CN55	UE0075	Pin Jack, TMP-J01X-A2	C13	CU0002	Chip C, C2012CH1H010C
R70	RK0011	Chip R, MCR10EZHJ470E	CN58	UE0108	Connector, 6FE-BT	C14	CU8016	Chip C, C2012B1H102K
R71	RK0018	Chip R, MCR10EZHJ101E				C15	CU8016	Chip C, C2012B1H102K
R72	RK0011	Chip R, MCR10EZHJ470E	IC1	XA0070	IC, MC3361D	C16	CU8016	Chip C, C2012B1H102K
R73	RK0037	Chip R, MCR10EZHJ152E	IC2	XA0033	IC, μPC393G	C17	CC5003	Ceramic C, HM60SJ330J
R74	RK0001	Chip R, MCR10EZHJ100E	IC3	XA0114	IC, μPD6345GS	C18	CU8016	Chip C, C2012B1H102K
R75	RK0038	Chip R, MCR10EZHJ182E	IC4	XA0119	IC, AN8010M			
R76	RK0045	Chip R, MCR10EZHJ472E	11			J1	UJ0020	Jack, HSJ0836-01-310
R77	RK0056	Chip R, MCR10EZHJ223E	D4	XD0040	Diode, DAN202K	J2	UJ0021	Jack, HSJ0837-01-010
		Chip R, MCR10EZHJ223E	D7	XD0040 XD0118	Diode, MA716			
	RK0056	01 1 D MODA ACTURAGE	1101	XD0118	Diode, MA716	CN42	UE0108	Connector, 6FE-BT
R79	RK0056	Chip R, MCR10EZHJ223E	NA			CN44	UE0114	Connector, 5512-04A
R79 R80	RK0056 RK0056	Chip R, MCR10EZHJ223E	D8		Diode, DAN202K			
R78 R79 R80 R81	RK0056 RK0056 RK0052	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E	D9	XD0040	Diode, DAN202K Diode, MA704WK	CN48	UE0043	Post with Base, PI22A02M
R79 R80 R81 R82	RK0056 RK0056 RK0052 RK0028	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E		XD0040 XD0120	Diode, DAN202K Diode, MA704WK Pin-D, 1SV128		UE0043	Post with Base, PI22A02M
R79 R80 R81 R82 R83	RK0056 RK0056 RK0052 RK0028 RK0052	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E	D9 D10	XD0040	Diode, MA704WK	RT1	UE0043 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E	D9 D10 D11	XD0040 XD0120 XD0112	Diode, MA704WK Pin-D, 1SV128	RT1 RT2	UE0043 UE0119 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020 RK0010	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ390E	D9 D10 D11 D12	XD0040 XD0120 XD0112 XD0112	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128	RT1	UE0043 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020 RK0010 RK0020	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ390E Chip R, MCR10EZHJ151E	D9 D10 D11 D12 D13	XD0040 XD0120 XD0112 XD0112 XD0041	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K	RT1 RT2	UE0043 UE0119 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86 R87	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020 RK0010 RK0020 RK0020	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E	D9 D10 D11 D12 D13 D14	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K	RT1 RT2	UE0043 UE0119 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020 RK0010 RK0020 RK0020 RK0045	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ390E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E	D9 D10 D11 D12 D13 D14 D15	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0014	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89	RK0056 RK0056 RK0052 RK0052 RK0052 RK0020 RK0010 RK0020 RK0020 RK0020 RK0036	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ471E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ172E Chip R, MCR10EZHJ172E	D9 D10 D11 D12 D13 D14 D15 D16	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0014 XD0040	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, DAN202K	RT1 RT2	UE0043 UE0119 UE0119	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90	RK0056 RK0056 RK0052 RK0052 RK0052 RK0020 RK0010 RK0020 RK0020 RK0045 RK0036 RK2010	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ172E Chip R, MCR10EZHJ172E Chip R, MCR10EZHJ1330E	D9 D10 D11 D12 D13 D14 D15 D16 D17	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0014 XD0040 XD0113	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, DAN202K Zener, 02CZ4. 3Y Zener, 02CZ6. 2Y	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119 UE0129	Post with Base, PI22A02M RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B RT Pin, RT-01T-1.0B
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91	RK0056 RK0056 RK0052 RK0028 RK0020 RK0010 RK0020 RK0020 RK0045 RK0045 RK0036 RK2010 RK0052	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ390E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ12E Chip R, MCR10EZHJ122E Chip R, MCR10EZHJ133E Chip R, MCR10ZHJ133E	D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0044 XD0040 XD0113 XD0104	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, DAN202K Zener, 02CZ4. 3Y	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119 XA0122 XD0106	Post with Base, PI22A02M RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B IC, M57726R Diode, UM9401
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91 R92	RK0056 RK0056 RK0052 RK0028 RK0052 RK0020 RK0010 RK0020 RK0020 RK0045 RK0036 RK2010 RK0052 RK0052	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ122E Chip R, MCR10EZHJ1330E Chip R, MCR10EZHJ1330E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E	D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	XD0040 XD0120 XD0112 XD0112 XD0012 XD0041 XD0041 XD0014 XD0013 XD0104 XD0103	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, DAN202K Zener, 02CZ4. 3Y Zener, 02CZ6. 2Y	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119 XA0122 XD0106 XD0014	Post with Base, PI22A02M RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B IC, M57726R Diode, UM9401 Diode, MI308
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89	RK0056 RK0056 RK0052 RK0028 RK0020 RK0010 RK0020 RK0020 RK0045 RK0045 RK0036 RK2010 RK0052	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ390E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ12E Chip R, MCR10EZHJ122E Chip R, MCR10EZHJ133E Chip R, MCR10ZHJ133E	D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0044 XD0040 XD0113 XD0104	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, MAN202K Zener, 02CZ4, 3Y Zener, 02CZ6, 2Y Diode, 1SS226	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119 XA0122 XD0106	Post with Base, PI22A02M RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B RT Pin, RT-01T-1. 0B IC, M57726R Diode, UM9401
R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89	RK0056 RK0056 RK0052 RK0052 RK0052 RK0020 RK0010 RK0020 RK0020 RK0045 RK0036 RK2010	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ103E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ151E Chip R, MCR10EZHJ172E Chip R, MCR10EZHJ172E Chip R, MCR10EZHJ1330E	D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	XD0040 XD0120 XD0112 XD0112 XD0041 XD0041 XD0044 XD0040 XD0113 XD0104	Diode, MA704WK Pin-D, 1SV128 Pin-D, 1SV128 Diode, DAP202K Diode, DAP202K Diode, MI308 Diode, DAN202K Zener, 02CZ4. 3Y Zener, 02CZ6. 2Y	RT1 RT2 RT3	UE0043 UE0119 UE0119 UE0119 UE0129	Post wing RT Pin, RT Pin, RT Pin, RT Pin, RT Pin,

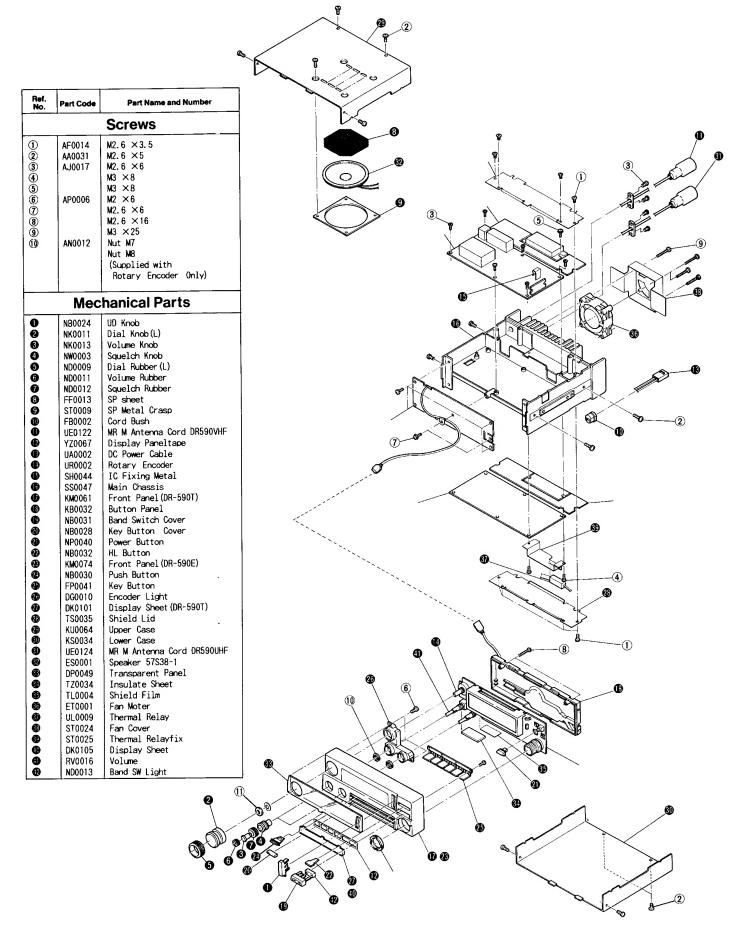
Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
L1	QK0061	Coil, OR8-3-9R5TLM	L2	QK0044	Air Core Coil, OR5-3R0-9R5T	C64	CU3023	Chip C, CM105CH101K50VA
L2	QK0042	Coil, 0R6-3-5R0 RM				C65	CU3023	Chip C, CM105CH101K50VA
L3	QK0060	Coil, 0R8-3-5R0 RS	L3	QK0068	Air Core Coil, OR8-3R0-2R5T	C66	CU3023	Chip C, CM105CH101K50VA
L4	QK0059	Coil, 0R8-3-4R0 RS			a a ana 400 400T	C67	CU0071	Chip C, C2012CH1H101J
L5	QK0061	Coil, 0R5-3-9R5 LM	L4	QK0065	Air Core Coil, 0R8-4R0-1R2T	C68	CU0071	Chip C, C2012CH1H101J Chip C, CM105Y5V333Z25VA
L6 L7	QK0059 QK0059	Coil, 0R8-3-4R0 RS Coil, 0R8-3-4R0 RS	L5	QK0065	Air Core Coil, OR8-4R0-1R2T	C69 C70	CU3053 CU8040	Chip C, 2012JB1E473K
R1	RK0045	Chip R, MCR10EZHJ472E	٤5	QK0094	(E only) Air Core Coil, OR8-3R4-1R2T	R1 R2	RA0002 RA0002	R. Ally, MNR12E0AJ473E R. Ally, MNR12E0AJ473E
R2 R3	RK0011 RK0035	Chip R, MCR10EZHJ470E Chip R. MCR10EZHJ102E	L7	QB0003	(T only) 0P-2.6-3-1.2	R3	RA0002	R. Ally. MNR12E0AJ473E
R4	RK2018	Chip R. MCR50JZHJ151E	'	about 5	01 2.0 3 1.2	R4	RA0002	R. Ally, MNR12E0AJ473E
	I WILLUIG		VR1	RH0038	VR, CVR-42A-473AD	R5	RA0002	R. Ally, MNR12E0AJ473E
VR1	RH0038	VR, CVR-42A-473AD				R6	RA0002 RK0086	R. Ally, MNR12E0AJ473E Chip R. MCR10EZHJ105E
				CO	NTROL Unit	R8 R9	RK0052	Chip R. MCR10EZHJ103E
	U	HF PA Unit		T		R10	RK0105	Chip R, MCR10EZHJ2R2E
			C1	CU8003	Chip C, C2012JF1E104Z Chip C, C2012JF1E104Z	R11	RK0062	Chip R, MCR10EZHJ473E
C1	CE0163	Chemical C, 16MV 1000AZ	C2 C3	CU8003	Chip C, C2012JF1E104Z	R12	RK0062	Chip R, MCR10EZHJ473E
C2 C3	CU0051 CE0201	Chip C, C2012CH1H471K Chemical C, 16MV 10SZ	C4	CU8003	Chip C. C2012JF1E104Z	R13	RK0036 RK0036	Chip R, MCR10EZHJ122E Chip R, MCR10EZHJ122E
C4	CU0051	Chip C, C2012CH1H471K	C5	CU8003	Chip C, C2012JF1E104Z	R15	RK0033	Chip R. MCR10EZHJ821E
C5	CE0201	Chemical C, 16MV 10SZ	C6	CU8003	Chip C, C2012JF1E104Z	R16	RK0033	Chip R, MCR10EZHJ821E
C6	CU7014	Chip C, UC232H0060D-T	C7	CU8003	Chip C, C2012JF1E104Z	R17	RK0033	Chip R, MCR10EZHJ821E
C7	CU0051	Chip C, C2012CH1H471K	C8	CU8003	Chip C, C2012JF1E104Z	R18	RK0033	Chip R, MCR10EZHJ821E
C8	CU0007	Chip C, C2012CH1H060D	C9	CU8003 CU8003	Chip C, C2012JF1E104Z Chip C, C2012JF1E104Z	R19	RA0005	R. Ally, MNR14AJ473E
C9	CC5008	Ceramic C, HN60SJSL070D	C10	CU8003	Chip C, C2012JF1E104Z	R20	RA0005	R. Ally, MNR14AJ473E
C9	CC5016	(E only) Ceramic C, HN6OSJSL080D	C12	CU8003	Chip C, C2012JF1E104Z	R21 R22	RA0005 RA0005	R.Ally, MNR14AJ473E R.Ally, MNR14AJ473E
Ca	003010	(T only)	C13	CU8003	Chip C, C2012JF1E104Z	R23	RK0059	Chip R, MCR10EZHJ333E
C10	CU0002	Chip C, C2012CH1H010C	C14	CU8003	Chip C, C2012JF1E104Z	R24	RK0062	Chip R, MCR10EZHJ473E
C11	CU8028	Chip C, C2012B1H103K	C15	CU8003	Chip C, C2012JF1E104Z	R25	RK0042	Chip R, MCR10EZHJ332E
C12	CU7021	Chip C, UC232H0160J	C16	CU8003	Chip C, C2012JF1E104Z	R26	RK0037	Chip R, MCR10EZHJ152E
C13	CU7022	Chip C, TE82UC232H0100D	C17 C18	CU8003 CU8028	Chip C, C2012JF1E104Z Chip C, C2012B1H103K	R27	RK0056	Chip R, MCR10EZHJ223E
C13	CU7016	(E only) Chop C. TE82UC232H0080D	C19	CU8028	Chip C, C2012B1H103K	R28	RK0045	Chip R, MCR10EZHJ472E Chip R, MCR10EZHJ473E
CIS	COTOTO	(T only)	C20	CU8028	Chip C, C2012B1H103K	R29 R30	RK0062 RK0062	Chip R, MCR10EZHJ473E
C14	CU8016	Chip C, C201281H102K	C21	CU8016	Chip C, C2012B1H102K	R31	RK0107	Chip R, MCR10EZHJ000E
C15	CU8016	Chip C, C201281H102K	C22	CU8016	Chip C, C2012B1H102K	R32	RK0107	Chip R, MCR10EZHJ000E
C16	CU8016	Chip C, C2012B1H102K	C23	CU8016	Chip C, C2012B1H102K			(T only)
C17	CU7003	Chip C, C3K3INAR102K	C24 C25	CU8016 CU8016	Chip C, C2012B1H102K Chip C, C2012B1H102K	R34	RK0107	Chip R, MCR10EZHJ000E
C24 C25	CU8016 CU8016	Chip C, C2012B1H102K Chip C, C2012B1H102K	C26	CU8016	Chip C, C2012B1H102K	R36	RA0006	R. Ally, EXB-M16D6ALG (T only)
C26	CS0208	Chip Tantal, TMC-M0J475M	C27	CU8016	Chip C, C2012B1H102K	R36	RD0115	JPW01FC0 30Q (E only)
C27	CU8016	Chip C, C2012B1H102K	C28	CU8016	Chip C, C2012B1H102K	R37	RA0005	R. Ally. MNR14AJ473E
C28	CU8016	Chip C, C2012B1H102K	C29	CU8016	Chip C, C2012B1H102K	R38	RK0050	Chip R, MCR10EZHJ822E
C29	CS0208	Chip Tantal, TMC-M0J475M	C30	CS0052	Chip Tantal, TMC1A336 Chip C. C2012CH1H101J	R39	RK0025	Chip R, MCR10EZHJ331E
C30	CU8016	Chip C, C2012B1H102K	C31 C32	CU0071 CU8034	Chip C, C2012CH111013	R41	RA0005	R. Ally, MNR14AJ473E
C31 C32	CU0051 CU8016	Chip C, C2012CH1H471K	C33	CU8040	Chip C, 2012JB1E473K	R42 R43	RK0033 RK0033	Chip R, MCR10EZHJ821E
652	000010	G115 0, 02012511110210	C34	CU8038	Chip C, CM316Y5V105Z25VA	R44	RK0033	Chip R, MCR10EZHJ821E Chip R, MCR10EZHJ222E
CN62	UE0108	Connector, 6FE-BT	C35	CU8038	Chip C, CM316Y5V105Z25VA	R45	RK0039	Chip R, MCR10EZHJ222E
CN64	UE0112	Connector, 5513-04CPB	C36	CU8038	Chip C, CM316Y5V105Z25VAT	R46	RK0039	Chip R, MCR10EZHJ222E
CN65	UE0116	Pin 1.0×18L	C36	CU9010	(T only) Chip C, C32161H223KB	R47	RK0039	Chip R, MCR10EZHJ222E
CN67	UE0116 UA0002	Pin 1.0×18L	030	009010	(E only)	R48	RK0001	Chip R, MCR10EZHJ100E
CN68 CN6A	UE0108	R/B 1.25 × 0.25M Plug Connector, 6FE-BT	C37	CU8038	Chip C, CM316Y5V105Z25VA	R49	RK0069	Chip R, MCR10EZHJ104E
SHOP	520100	35.11.0000, 01.2.01	C38	CU8038	Chip C, CM316Y5V105Z25VA	R50 R51	RK0056 RK0001	Chip R, MCR10EZHJ223E Chip R, MCR10EZHJ100E
RT1	UE0119	RT Pin, RT-01T-1.0B	C39	CU8016	Chip C, C2012B1H102K	R52	RK0036	Chip R, MCR10EZHJ122E
RT2	UE0119	RT Pin, RT-01T-1.0B	C40	CE0118	Chemical C, 6R3MS7 220	R53	RK0035	Chip R, MCR10EZHJ102E
RT3	UE0119	RT Pin, RT-01T-1.0B	C41 C42	CS0052 CU8016	Chip Tantal, TMC1A336 Chip C, C2012B1H102K	R54	RK0079	Chip R, MCR10EZHJ474E
RT5	UE0119	RT Pin, RT-01T-1.0B	C42	CU8016	Chip C, C2012B1H102K	R55	RK0072	Chip R, MCR10EZHJ184E
R2	RK0107	Chip R, MCR10EZHJ000E	C44	CS0052	Chip Tantal, TMC1A336	R56	RK0073	Chip R, MCR10EZHJ224E
R3	RK0107	Chip R, MCR10EZHJ000E	C45	CE0315	Chemical C, 16CV47B	R57 R59	RK0059 RK0062	Chip R, MCR10EZHJ333E Chip R, MCR10EZHJ473E
R4	RK0045	Chip R, MCR10EZHJ472E	C46	CU8016	Chip C, C2012B1H102K	R60	RK0062	Chip R, MCR10EZHJ473E
R5	RK0011	Chip R, MCR10EZHJ470E	C48	CS0221	Chip Tantal, TMCM1C475TR	R61	RK0045	Chip R, MCR10EZHJ472E
R6	RK0052	Chip R, MCR10EZHJ103E	C49	CU0071 CU0051	Chip C, C2012CH1H101J Chip C, C2012CH1H471K	R62	RK0069	Chip R, MCR10EZHJ104E
R7	RK0023	Chip R, MCR10EZHJ271E	C50 C51	CU0051	Chip C, C2012CH1H471K	R63	RK0035	Chip R, MCR10EZHJ102E
R8	RK2018	Chip R, MCR50JZHJ151E	C52	CU0060	Chip C, C2012CH1H470J	R64	RK0107	Chip R, MCR10EZHJ000E
IC1	XA0077	IC, M57788M	C53	CU0065	Chip C, C2012CH1H270J	VR1	RH0038	VR. CVR-42A-473AD
			C54	CU0065	Chip C, C2012CH1H270J	VR2	RH0038	VR, CVR-42A-473AD
Q1	XT0041	Transistor, FMW1T148	C55	CS0057	Chip Tantal, TMC0J225	7112	13,0030	, 0777 4251 470710
			C56	CU8003	Chip C, C2012JF1E104Z	L1	QC0104	Chip L, LER015T1R5M
D1	XD0106	Diode, UM9401	C57	CU8032	Chip C, C2012B1E223K Chip C, C2012CH1H101J	L2	QC0104	Chip L, LER015T1R5M
D2	XD0014	Diode, MI308	C58 C59	CU0071 CU8028	Chip C, C2012B1H103K			
D3 D4	XD0102 XD0118	Diode, 1SS101 Diode, MA716	C60	CU8028	Chip C, C2012B1H103K	CN12	UE0115	Connector, 50020-8106
D5	XD0118	Diode, DAN202K	C61	CU8028	Chip C, C2012B1H103K	CN15	UE0121	Connector, R-DR590
D6	XD0107	Diode, G3B	C62	CU8028	Chip C, C2012B1H103K	CN16	UE0035	Mic Connector, FM214-8SMPY
טט ן			C63	CU8016	Chip C, C2012B1H102K	1	1	

Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref.	Part Code	Part Name and Number
SW1	UU0011	Tact Switch, SKHMPU	C6	CE0310	Chemical C, 10CV33B	R14	RK0056	Chip R, MCR10EZHJ223E
SW2	UU0011	Tact Switch, SKHMPU	C7	CU8016	Chip C, C2012B1H102K	R15	RK0061	Chip R, MCR10EZHJ393E
SW3	UU0011	Tact Switch, SKHMPU	C8	CU0060	Chip C, C2012CH1H470J	R16	RK0067	Chip R, MCR10EZHJ823E
SW4	UU0011	Tact Switch, SKHMPU	C9	CU0060	Chip C, C2012CH1H470J	R17	RK0052	Chip R. MCR10EZHJ103E
SW5	UU0011	Tact Switch, SKHMPU	C10	CU0060	Chip C, C2012CH1H470J	R18	RK0056	Chip R, MCR10EZHJ223E
SW6	UU0011	Tact Switch, SKHMPU	C11	CU0060	Chip C, C2012CH1H470J	R19	RK0061	Chip R, MCR10EZHJ393E
SW7	UU0011	Tact Switch, SKHMPU	C12	CU0051	Chip C, C2012CH1H471K	R20	RK0067	Chip R, MCR10EZHJ823E
SW8	UU0011	Tact Switch, SKHMPU	C13	CS0051	Chip Tantal, TMC1C106	R21	RK0062	Chip R, MCR10EZHJ473E
SW9	UU0011	Tact Switch, SKHMPU	C14	CU8003	Chip C, C2012JF1E104Z	R22	RK0062	Chip R, MCR10EZHJ473E
SW10	UU0011	Tact Switch, SKHMPU	C15	CU8038	Chip C, CM316Y5V105Z25VAT	R23	RA0003	R. Ally, MNR14J392E
SW11	UU0011	Tact Switch, SKHMPU	C16	CE0310	Chemical C, 10CV33B	R24	RA0002	R. Ally, MNR12J473E
SW12	UU0011	Tact Switch, SKHMPU	C17	CU8016	Chip C, C2012B1H102K	R25	RA0004	R. Ally, MNR14J473E
SW13	UU0011	Tact Switch, SKHMPU	C18	CU0055	Chip C, C2012CH1H681K	R26	RK0038	Chip R, MCR10EZHJ182E
SW14	UQ0013	Switch, EVQ-QEC-04K	C19	CU8022	Chip C, C2012B1H332K	R27	RK0038	Chip R, MCR10EZHJ182E
SW15	UQ0013	Switch, EVQ-QEC-04K	C20	CU0070	Chip C, C2012CH1H820J	R28	RK0035	Chip R, MCR10EZHJ102E
SW16	UU0011	Tact Switch, SKHMPU	C21	CU8016	Chip C, C2012B1H102K	R30	RK0035	Chip R, MCR10EZHJ102E
SW17	UU0011	Tact Switch, SKHMPU	C22	CS0221	Chip Tantal, TMCM1C475MTR	R31	RK0035	Chip R, MCR10EZHJ102E
SW18	UQ0011	Switch, ESB-64801	C23	CU8038	Chip C, CM316Y5V105Z25VAT	R32	RK0045	Chip R, MCR10EZHJ472E
SW19	UR0002	Switch, EVQWQGF1542B	C24	CU8028	Chip C, C2012B1H103K	R33	RK0062	Chip R, MCR10EZHJ473E
	FDAAAA	11.11.	C25	CU8028	Chip C, C2012B1H103K	R34	RK0107	Chip R, MCR10EZHJ000E
	ED0006	Lithium Battery, BR2032-1F2	C26	CU8016	Chip C, C2012B1H102K	R35	RK0018	Chip R, MCR10EZHJ101E
	TZ0024	Insulating Paper	C27	CU8016	Chip C, C2012B1H102K	R36	RK0052	Chip R, MCR10EZHJ103E
1.00	EL AALA	LCD Unit DDCOOT	C29	CS0051	Chip Tantal, TMC1C106	R37	RK0056	Chip R, MCR10EZHJ223E
LCD	EL0014	LCD Unit, DR590T	C30	CU8003	Chip C, C2012JF1E104Z	R38	RK0061	Chip R, MCR10EZHJ393E
01	VD0040	Diada DANGOOK	C31	CE0124	Chemical C, 16MV47SWB	R39	RK0067	Chip R, MCR10EZHJ823E
D1	XD0040	Diode, DAN202K	C32	CU8028	Chip C, C2012B1H103K	R40	RK0044	Chip R, MCR10EZHJ392E
D2	XD0041	Diode, 1SS226	C33	CU8034	Chip C, C2012X7R1E333K	R41	RK0044	Chip R, MCR10EZHJ392E
D4	XD0040	Diode, DAN202K	C34	CU8028	Chip C, C2012B1H103K	R42	RK0044	Chip R, MCR10EZHJ392E
D5 D6	XD0040	Diode, DAN202K	C35	CU8016	Chip C, C2012B1H102K	R43	RK0044	Chip R, MCR10EZHJ392E
D6 D11	XD0040 XL0023	Diode, DAN202K Chip LED, SLM125MWS	C36	CU8034 CU8028	Chip C, C2012X7R1E333K	R45	RK0045	Chip R, MCR10EZHJ472E Chip R, MCR10EZHJ103E
D12	XL0023	Chip LED, SLM125MWS		1	Chip C, C2012B1H103K	1 1	RK0052	
D13	XL0023	Chip LED, SLM125MWS	C39	CU8028 CU8028	Chip C, C2012B1H103K	R47	RK0056	Chip R, MCR10EZHJ223E
D14	XL0023	Chip LED, SLM125MWS	C40	CU8034	Chip C, C2012B1H103K	R49	RK0061 RK0067	Chip R, MCR10EZHJ393E
D15	XL0023	Chip LED, SLM125MWS	C42	CU8034	Chip C, C2012X7R1E333K Chip C, C2012X7R1E333K	R51	RK0044	Chip R, MCR10EZHJ823E Chip R, MCR10EZHJ392E
D16	XL0023	Chip LED, SLM125MWS	C44	CU8038	Chip C, CM316Y5V105Z25VAT	R52	RK0044	Chip R, MCR10EZHJ392E
D17	XL0023	Chip LED, SLM125MWS	C45	CU8038	Chip C, CM316Y5V105Z25VAT	R53	RK0044	Chip R, MCR10EZHJ392E
D18	XL0023	Chip LED, SLM125MWS	C46	CS0221	Chip Tantal, TMCM1C475MTR	R54	RK0044	Chip R, MCR10EZHJ392E
D19	XL0023	Chip LED, SLM125MWS	C47	CU8028	Chip C, C2012B1H103K	R55	RK0038	Chip R, MCR10EZHJ182E
D20	XL0023	Chip LED, SLM125MWS	C48	CS0051	Chip Tantal, TMC1C106	R56	RK0052	Chip R, MCR10EZHJ103E
D21	XL0023	Chip LED, SLM125MWS	C49	CU8038	Chip C, CM316Y5V105Z25VAT	R57	RK0045	Chip R, MCR10EZHJ472E
D22	XL0023	Chip LED, SLM125MWS	C50	CE0315	Chemical C, 16CV47B	R58	RK0043	Chip R, MCR10EZHJ473E
D23	XL0023	Chip LED, SLM125MWS	C51	CU8028	Chip C, C2012B1H103K	R60	RK0062	Chip R, MCR10EZHJ473E
D24	XL0023	Chip LED, SLM125MWS	C52	CU8038	Chip C. CM316Y5V105Z25VAT	R61	RK0045	Chip R, MCR10EZHJ472E
D25	XL0023	Chip LED, SLM125MWS	C53	CU8003	Chip C, C2012JF1E104Z	R63	RK0005	Chip R, MCR10EZHJ220E
D26	XL0023	Chip LED, SLM125MWS	C54	CS0051	Chip Tantal. TMC1C106	R64	RK0052	Chip R, MCR10EZHJ103E
			C55	CU8028	Chip C, C2012B1H103K	R65	RK0062	Chip R. MCR10EZHJ473E
IC1	XA0140	IC, μPD75116GF716-3BE	C56	CU8028	Chip C, C2012B1H103K	R66	RK0072	Chip R, MCR10EZHJ184E
IC2	XA0105	IC, MC145436DWR	C57	CU8028	Chip C, C2012B1H103K	R67	RK0076	Chip R. MCR10EZHJ334E
IC3	XA0117	IC, S-2510A	C58	CU8028	Chip C, C2012B1H103K	R68	RK0072	Chip R, MCR10EZHJ184E
IC4	XA0118	IC, S-8054ALR-LN	C59	CU8028	Chip C, C2012B1H103K	R69	RK0073	Chip R, MCR10EZHJ224E
IC5	XA0075	IC, NJM78L08UA	C60	CU8028	Chip C, C2012B1H103K	R70	RK0047	Chip R. MCR10EZHJ562E
IC6	XA0068	IC, M5218FP-T01-1	C61	CU8028	Chip C, C2012B1H103K	R71	RK0047	Chip R, MCR10EZHJ562E
IC7	XA0089	IC, NJM78L06UA	C62	CS0057	Chip Tantal, TMC0J225M	R72	RK0047	Chip R, MCR10EZHJ823E
IC8	XA0087	IC, TC4S01F	C63	CS0057	Chip Tantal, TMC0J225M	R73	RK0070	Chip R, MCR10EZHJ124E
			C64	CU3023	Chip C, CM105CH101K	R74	RK0070	Chip R, MCR10EZHJ124E
Q1	XT0037	Transistor, 2SC2412KR	C65	CU3023	Chip C, CM105CH101K	R75	RK0069	Chip R, MCR10EZHJ104E
Q2	XU0028	Digital Transistor, FMC2	C66	CU3023	Chip C, CM105CH101K	R76	RK0056	Chip R, MCR10EZHJ223E
Q3	XU0012	Digital Transistor,	C67	CU3023	Chip C, CM105CH101K	R77	RK0001	Chip R, MCR10EZHJ100E
		DTC114EK	C68	CU3023	Chip C, CM105CH101K	R78	RK0039	Chip R, MCR10EZHJ222E
Q4	XU0012	Digital Transistor,	C69	CU3023	Chip C, CM105CH101K	R79	RK0081	Chip R, MCR10EZHJ564E
۱ ا	VT000-	DTC114EK			_ /	R80	RK0035	Chip R, MCR10EZHJ102E
Q5	XT0037	Transistor, 2SC2412KR	CN21	UE0120	Connector, P-DR590	R81	RK0045	Chip R, MCR10EZHJ472E
Q6	XT0118	Transistor, 2SB744Q	CN22	UE0100	Connector, 52030-1610	R82	RK0062	Chip R, MCR10EZHJ473E
Q7	XU0014	Digital Transistor,	CN23	UE0110	Connector, 52030-1210	R83	RK0052	Chip R. MCR10EZHJ103E
_	VIII OCA .	DTC144EK	CN24	UE0109	Connector, 52030-1810	R84	RK0045	Chip R, MCR10EZHJ472E
Q8	XU0014	Digital Transistor,	CN25	UE0109	Connector, 52030-1810	R85	RK0039	Chip R, MCR10EZHJ222E
		DTC144EK			<u> </u>	R86	RK0045	Chip R. MCR10EZHJ472E
Q9	XU0014	Digital Transistor,	R1	RA0003	R. Ally, MNR14E0AJ102E	R87	RK0001	Chip R, MCR10EZHJ100E
	VT.0	DTC144EK	R2	RA0003	R. Ally, MNR14E0AJ102E	R88	RK0035	Chip R, MCR10EZHJ102E
Q10	XT0037	Transistor, 2SC2412KR	R3	RA0003	R. Ally, MNR14E0AJ102E	R89	RK0081	Chip R, MCR10EZHJ564E
,	V00001	BOULTO FOUR	R4	RA0003	R. Ally, MNR14E0AJ102E	R90	RK0018	Chip R, MCR10EZHJ101E
X1	XQ0021	DSMAT3. 58MHz	R5	RA0003	R. Ally, MNR14E0AJ102E	R91	RK0039	Chip R, MCR10EZHJ222E
			R6	RA0003	R. Ally, MNR14E0AJ102E	R92	RK0045	Chip R, MCR10EZHJ472E
	SHR (CONTROL Unit	R7	RK0035	Chip R, MCR10EZHJ102E	R93	RK0062	Chip R, MCR10EZHJ473E
	500 (JOHN THE STATE OF	R8	RK0035	Chip R, MCR10EZHJ102E	R94	RK0045	Chip R, MCR10EZHJ472E
	CU8016	Chip C, C2012B1H102K	R9	RK0035	Chip R, MCR10EZHJ102E	R95	RK0001	Chip R, MCR10EZHJ100E
21	CUOUID		R10	RK0035	Chip R, MCR10EZHJ102E	R96	RK0035	Chip R, MCR10EZHJ102E
C2	CE0124 CU8016	Chemical C, 16MV47SWB	R11	RK0035	Chip R, MCR10EZHJ102E	R97	RK0081	Chip R, MCR10EZHJ564E
C1 C2 C3 C4	CE0124							

Ref.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Number
R102	RK0052	Chip R, MCR10EZHJ103E	C31	CE0033	Chemical C, 10MV10UWA	R21	RK0018	Chip R, MCR10EZHJ101E
R103	RK0052	Chip R, MCR10EZHJ103E				R22	RK0044	Chip R, MCR10EZHJ392E
R104	RK0045	Chip R, MCR10EZHJ472E	CN3D	UE0076	Pin Header, SB4P-HVQ-CA	R23	RK0013	Chip R, MCR10EZHJ560E
R105	RK0045	Chip R, MCR10EZHJ472E	CN36	UE0097	Pin Header, SB3P-HVQ-CA	R26	RK0107	Chip R, MCR10EZHJ000E
R106	RK0018	Chip R, MCR10EZHJ101E		VIII 6 6 4 -	Distral Tassaintes	R29	RK0018	Chip R, MCR10EZHJ101E
R107	RK0027	Chip R, MCR10EZHJ391E	Q5	XU0012	Digital Transistor,			
R108	RK0027	Chip R, MCR10EZHJ391E	1	VC0040	DTC114EK			
R111	RK0052	Chip R, MCR10EZHJ103E	Q6	XE0010	FET, 2SK508K52T1		VH	IF PLL Unit
R112	RK0052	Chip R, MCR10EZHJ103E	Q7	XT0081	Transistor, 2SC2714Y	 		
R113	RK0052	Chip R, MCR10EZHJ103E	08	XE0010	FET, 2SK508K52T1 Transistor, 2SC2714Y	C1	CS0221	Chip Tantal, TMC-MIC475
R114	RK0052	Chip R, MCR10EZHJ103E	Q9 Q10	XT0081 XU0012	Digital Transistor,	C2	CS0063	Chip Tantal, TMC1V104
R115	RK0045	Chip R, MCR10EZHJ472E	U10	A00012	DTC114EK	C3	CU0071	Chip C, C2012CH1H101J
R116	RK0069	Chip R, MCR10EZHJ104E			91011421	C4	CU8016	Chip C, C2012B1H102K
R117	RK0052	Chip R, MCR10EZHJ103E	D4	XD0077	Varicap, 1SV161	C5	CS0061	Chip Tantal, TMC1V224
R118	RK0107 RK0001	Chip R, MCR10EZHJ000E Chip R, MCR10EZHJ100E	D6	XD0077	Varicap, 1SV161	C6	CS0057	Chip Tantal, TMC0J225
R119 R120	RK0069	Chip R, MCR10EZHJ104E	100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100, 100, 100, 100, 100, 100, 100, 100,	C8	CU0011	Chip C, C2012CH1H100D
R121	RK0069	Chip R. MCR10EZHJ104E	L3	QA0067	Coil, 100M0SC-2	C9	CU8016	Chip C, C2012B1H102K
R121	RK0073	Chip R, MCR10EZHJ224E	L4	QC0110	Chip L, LER015T4R7K	C28	CU0071	Chip C, C2012CH1H101J
R123	RK0107	Chip R, MCR10EZHJ000E	L6	QC0104	Chip L, LER015T1R5M	C29	CU0071	Chip C, CZUTZCHTHTUTS
11123	1.0.0107	32p 14 mon1022100002	L7	QC0104	Chip L, LER015T1R5M	_{R1}	RK0052	Chip R. MCR10EZHJ103E
X1	XB0004	FAR, C4CA04194000K01	L9	QC0110	Chip L, LER015T4R7K		RK0052	Chip R, MCR10EZHJ103E
^ '	1.55504		L10	QA0067	Coil, 100MOSC-2	R2 R3	RK0052	Chip R. MCR10EZHJ103E
L1	QC0104	Chip L . LER105T1R5M				R3	RK0052	Chip R, MCR10EZHJ103E
L2	QC0104	Chip L , LER105T1R5M	R16	RK0048	Chip R, MCR10EZHJ682E	N4 R5	RK0018	Chip R, MCR10EZHJ101E
			R17	RK0018	Chip R, MCR10EZHJ101E	R6	RK0039	Chip R. MCR10EZHJ222E
ICI	XA0120	IC, µPD75108GFK30-3BE	R18	RK0021	Chip R, MCR10EZHJ181E	R7	RK0035	Chip R. MCR10EZHJ102E
IC2	XA0118	IC, S-8054ALR-LN	R19	RK0028	Chip R, MCR10EZHJ471E	R8	RK0052	Chip R, MCR10EZHJ103E
IC3	XA0098	IC, NJM78L05UA	R20	RK0045	Chip R, MCR10EZHJ472E	R9	RK0039	Chip R, MCR10EZHJ222E
IC4	XA0082	IC, MC7808CT	R21	RK0028	Chip R, MCR10EZHJ471E	R10	RK0018	Chip R, MCR10EZHJ101E
IC5	XA0068	IC, M5218FP-T01-1	R22	RK0039	Chip R, MCR10EZHJ222E	R11	RK0107	Chip R, MCR10EZHJ000E
IC6	XA0120	IC, M51132L	R23	RK0018	Chip R, MCR10EZHJ101E	R12	RK0056	Chip R, MCR10EZHJ223E
IC7	XA0087	IC, TC4S01F	R24	RK0018	Chip R, MCR10EZHJ101E	R13	RK0052	Chip R, MCR10EZHJ103E
IC8	XA0087	IC, TC4S01F	R25	RK0018 RK0045	Chip R, MCR10EZHJ472E	R14	RK0056	Chip R, MCR10EZHJ223E
IC9	XA0115	IC, TC4S66F	R26	RK0028	Chip R, MCR10EZHJ471E	R15	RK0022	Chip R, MCR10EZHJ221E
IC10	XA0115	IC, TC4S66F	R27 R28	RK0028	Chip R, MCR10EZHJ222E	R30	RK0035	Chip R, MCR10EZHJ102E
1	VT0007	T	R29	RK0021	Chip R, MCR10EZHJ181E	R31	RK0107	Chip R, MCR10EZHJ000E
Q1	XT0037	Transistor, 2SC2412KR	R32	RK0039	Chip R, MCR10EZHJ222E			0: 11 4 6070 1840 07
02	XT0037 XT0037	Transistor, 2SC2412KR Transistor, 2SC2412KR	1,102			CN37	UE0117	Pin Header, SB7P-HVQ-27
Q3		11 4 4 1		U	HF VCO Unit	IC1	XA0149	IC, MB15101LPF
04	XU0015	Digital Transistor, DTC144TK	C10	CU8016	Chip C. C2012B1H102K	- a1	XT0038	Transistor, 2SA1037KR
Q5	XU0015	Digital Transistor,	C11	CU0003	Chip C, C2012CH1H020C	02	XT0077	Transistor, 2SC3326A
		DTC144TK	C12	CU0003	Chip C, C2012CH1H020C	03	XU0017	Digital Transistor,
Q6	XU0014	Digital Transistor,	C13	CU8016	Chip C, C2012B1H102K	11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DTA144EK
		DTC144EK	C14	CU0010	Chip C, C2012CH1H090D	Q4	XT0081	Transistor, 2SC2714Y
Q7	XU0012	Digital Transistor,	C15	CU8016	Chip C, C2012B1H102K			
	1	DTC114EK	C16	CS0063	Chip Tantal, TMC1V104	D1	XD0104	Diode, 02CZ6. 2Y
Q8	XT0091	Transistor, 2SB14120F5T200	C17	CU0060	Chip C, C2012CH1H470J	D2	XD0103	Diode, 1SS226
09	XU0019	Digital Transistor,	C18	CU0005	Chip C, C2012CH1H040C			a de la constanció
1	W	DTA114YK	C19	CU0061	Chip C, C2012CH1H12OJ	L2	QC0108	Chip L, LER015T3R3K
Q10	XU0014	Digital Transistor,	C20	CU0001	Chip C, C2012CH1H0R5C			
		DTC144EKT146	C21	CU0009	Chip C, C2012CH1H080D		11	HF PLL Unit
<u> </u>		<u> </u>	C22	CU0006	Chip C, C2012CH1H050C			III FLE OIIIL
		VOL Unit	C23	CU0006	Chip C, C2012CH1H050C	C1	CU8016	Chip C, C2012B1H102K
-			C28	CE0033	Chip C, C201210MV10UMA	C2	CS0057	Chip Tantal, TMC0J225
VR1	RV0016	VR, RK0972210L2550KB×2	C29	CU0064	Chip C, C2012CH1H220J	C3	CS0063	Chip Tantal, TMC1V104
VR2	RV0016	VR, RK0972210L2550KB×2		UESSS	D: 114- CD2D 18/0 C4	C4	CS0221	Chip Tantal, TMC-MIC475
L			CN56	UE0097	Pin Header, SB3P-HVQ-CA	C5	CU0071	Chip C, C2012CH1H101J
	1/1	HF VCO Unit	CN5C	UE0076	Pin Header, SB4P-HVQ-CA	C7	CU0011	Chip C, C2012CH1H100D
	V I	11 100 01III	Q5	XE0002	FET, 2SK125	C8	CS0061	Chip Tantal, TMC1V224
C10	CU8016	Chip C. C2012B1H102K	Q6	XT0030	Transistor, 2SC3356BR25	C9	CU8016	Chip C, C2012B1H102K
C11	CU8028	Chip C, C2012B1H103K	""	3003	, , , , , , , , , , , , , , , , , , , ,	C25	CU8016	Chip C, C2012B1H102K
C12	CU0059	Chip C, C2012CH1H1R5C	D4	XD0100	Varicap, 1SV164	C26	CU0060	Chip C, C2012CH1H470J
C13	CU0051	Chip C, C2012CH1H471K	D5	XD0077	Varicap, 1SV161	C27	CU0060	Chip C, C2012CH1H470J
C14	CU8028	Chip C, C2012B1H103K	D6	XD0077	Varicap, 1SV161		1150117	Di- 114 CD70 1840 07
C15	CU0059	Chip C, C2012CH1H1R5C				CN57	UE0117	Pin Header, SB7P-HVQ-27
C16	CU0064	Chip C, C2012CH1H220J	L3	QC0101	Chip L, LER015TR82M	TOI	VA01 40	IC, MB1501LPFG8NDTF
C17	CU8016	Chip C, C2012B1H102K	L4	QK0086	Coil, OR5-2R2-3R5TRS	IC1	XA0149	TO, METSOTEFF CONDIT
C18	CU8016	Chip C, C2012B1H102K	L5	QC0099	Chip L, LER015TR56M	Q1	XT0038	Transistor, 2SA1037KR
C19	CS0063	Chip Tantal, TMC1V104	L6	QC0062	Chip L, NL322522T-039M	Q2	XT0038	Transistor, 2803326A
C20	CU8028	Chip C, C2012B1H103K	L7	QC0096	Chip L, LER015TR33M	Q3	XT0038	Transistor, 2SA1037KR
C21	CU8028	Chip C, C201281H103K	L8	QC0101	Chip L, LER015TR82M	04	XT0030	Transistor, 2SC3356BR25
C23	CU0059	Chip C, C2012CH1H1R5C		D::25	OL : D MODA 05711 14 005	"	/,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
C24	CU0064	Chip C, C2012CH1H220J	R16	RK0035	Chip R, MCR10EZHJ102E	D1	XD0104	Zenner, 02CZ6, 2Y
C25	CU8028	Chip C, C2012B1H103K	R17	RK0065	Chip R, MCR10EZHJ683E	D2	XD0103	Diode, 1SS226
C26	CU0071	Chip C, C2012CH1H101J	R18	RK0018 RK0011	Chip R, MCR10EZHJ101E Chip R, MCR10EZHJ470E			
C27	CU0066 CE0033	Chip C, C2012CH1H3303 Chemical C, 10MV10UWA	R19 R20	RK0011	Chip R, MCR10EZHJ103E	L2	QC0062	Chip L , NL322522T-039M
C30	UE0033	G KINITOGI O, TOMYTOUNA	\^20	MOODZ	OTTO THE MONTH OF ELLO FOR	J L		

	Part Code	Part Name and Number	Ref.	Part Code	Part Name and Number	Ref. No.	Part Code	Part Name and Numbe
Ī	RK0052	Chip R, MCR10EZHJ103E						
	RK0018	Chip R, MCR10EZHJ101E	H					
	RK0052	Chip R, MCR10EZHJ103E						
	RK0052	Chip R, MCR10EZHJ103E						
	RK0039	Chip R, MCR10EZHJ222E						
	RK0035	Chip R, MCR10EZHJ102E						
	RK0052	Chip R, MCR10EZHJ103E						
	RK0039	Chip R, MCR10EZHJ222E						
	RK0052	Chip R, MCR10EZHJ103E		i l				
)	RK0018	Chip R, MCR10EZHJ101E						
- 1	RK0107	Chip R, MCR10EZHJ000E					1 1	
: 1	RK0062	Chip R, MCR10EZHJ473E					{	
3	RK0045	Chip R, MCR10EZHJ472E				ľ		
.	RK0039	Chip R, MCR10EZHJ222E						
5	RK0045	Chip R, MCR10EZHJ472E					1	
,	RK0022	Chip R, MCR10EZHJ221E	11					
7	RK0018	Chip R, MCR10EZHJ101E					1	
	RK0018	Chip R, MCR10EZHJ101E						
	RK0107	Chip R, MCR10EZHJ000E						
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				1				

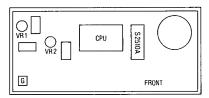
■ CABINET PARTS LOCATION

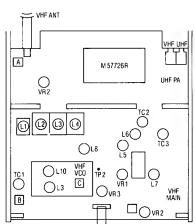


■ ADJUSTMENT

1. VHF Unit

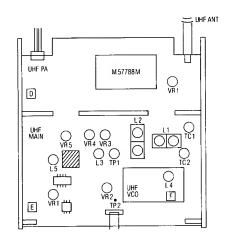
ITEM	ADJUSTMENT POINT (S)	ADJUSTMENT METHOD
VCO VOLTAGE	© L3, L10 (VCO BOX)	At 145.00MHz, adjust L3 so that the voltage of TP2 on B substrate is 3.0V. At 145.00MHz, pressing the PTT button, adjust L10 so that the voltage of TP2 on B substrate is 3.4V.
BASIC FREQUENCY	® TC1	Pressing PTT button, adjust TC1 so that f-counter indicates 145.950 ± 0.1 kHz (T) or 144.950 ± 0.1 kHz (E) MHz.
TX POWER	® TC2, 3	On "HI" position, pressing the PTT button, adjust TC2 and TC3 so that the power is maximum at 145.95MHz (T) or 144.95MHz (E).
POWER OUTPUT	(A) VR2 (HI) (E) VR3 (MID) (E) VR4 (LO)	On "HI" position, turn VR2 for 45W output at 145.95MHz (T) or 144.95MHz (E). Verify the lightining of the entire RF meter. On "MID" position, turn VR3 for 10W output at 145.95MHz (T) or 144.95MHz (E). On "LO" position, turn VR4 for 5W output at 145.95MHz (T) or 144.95MHz (E).
DEVIATION	® VR3	Enter the AF level of 0dBm, then pressing the PTT button, adjust VR3 so that you obtain 4.8kHz/Dev at 145.95MHz (T) or 144.95MHz (E) and AF 1kHz.
MIC GAIN	© VR1	Enter the AF level of -46dBm, then pressing the PTT button, adjust VR1 so that you obtain 4.0kHz/Dev at 444.95MHz (T) or 434.95MHz (E) and AF 1kHz.
SUBAUDIBLE TONE DEVIATION (DR-590T)	© VR2	Pressing the tone button at 145.95MHz, verify 0.6-0.8kHz/Dev at tone frequency of 88.5Hz.
1750Hz TONE DEVIATION (DR-590E)	© VR2	Pressing the tone button, verify that the tone frequency is 1750Hz and the deviation is 3.5kHz ±0.2 kHz.
DESCRIMINATOR	B L5, 6, 7	At 146.03MHz (T) or 145.03MHz (E) and 60 dB μ input, adjust L5, 6, 7 so that the distortion is minimum at 50mW.
SENSITIVITY	B L1, 2, L3, 4, 8	Adjust L1, 2, 3, 4, 8 so that 12dB SINAD sensitivity is the highest at 146.03MHz (T) or 145.03MHz (E).
SQUELCH	® VR2	At 146.03MHz (T) or 145.03MHz (E) and cut SG output. Adjust squelch knob point by VR2.
S-METER	® VR1	At 145.03MHz (T) and 3-dB $\!\mu$ [EMF], adjust VR1 so that 2 in the S-meter begins to light.



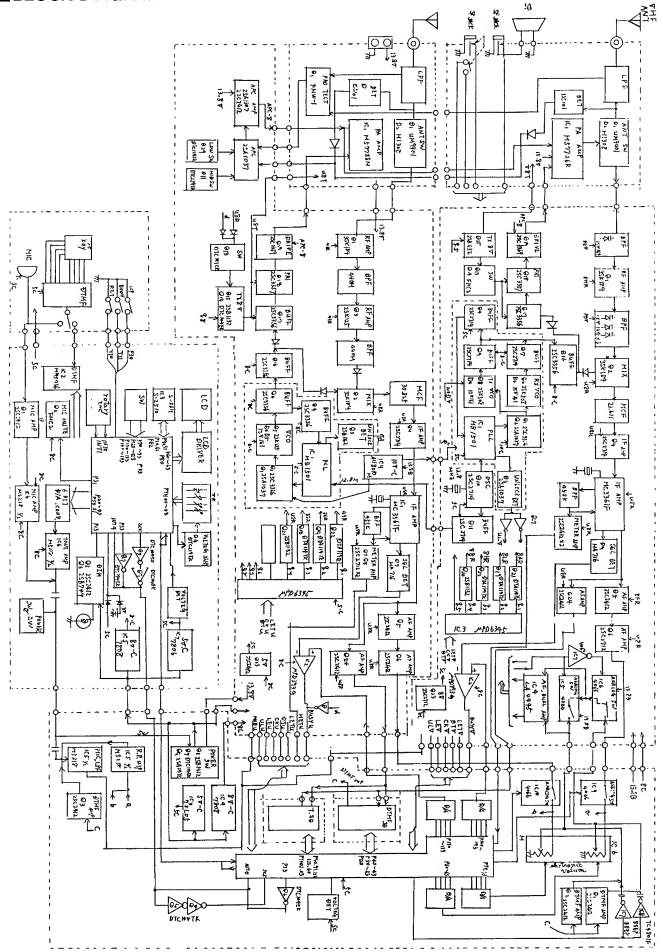


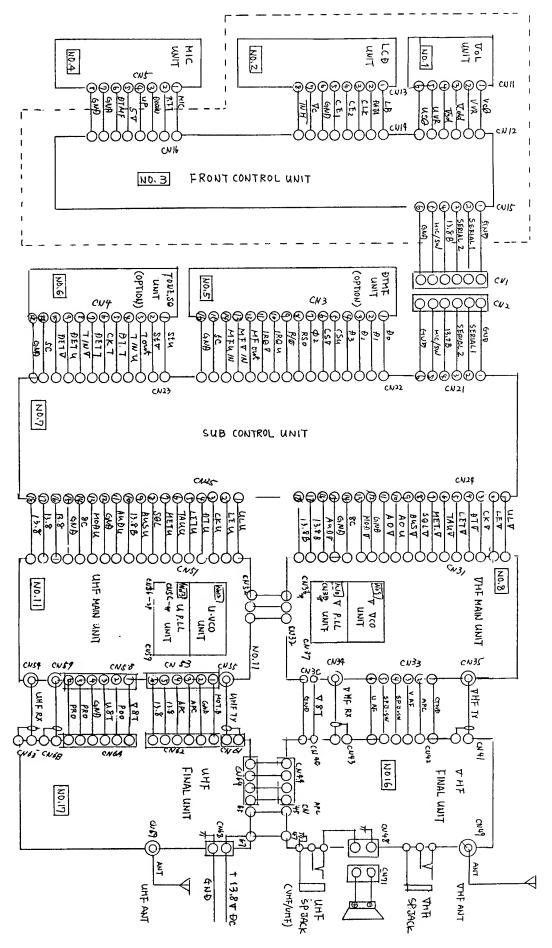
2. UHF Unit

ITEM	ADJUSTMENT POINT (S)	ADJUSTMENT METHOD
VCO VOLTAGE	© L4 (VCO BOX)	At 445.00MHz (T) or 435.00MHz (E), adjust L4 so that the voltage of TP2 on E substrate is 4.0V (T) or 3.2V (E).
POWER OUTPUT	© VR1 (HI) © VR3 (MID) © VR4 (LO)	On "HI" position, turn VR1 for 35W output at 444.95MHz (T) at 434.95MHz (E). Verify the lighting of the entire RF meter. On "MID" position, turn VR3 for 8W output at 444.95MHz (T) or 434.95MHz (E). On "LO" position, turn VR4 for 4W output at 444.95MHz (T) or 434.95MHz (E).
DEVIATION	© VR2	Enter the AF level of 0dBm, then pressing the PTT button, adjust VR2 so that you obtain 4.8kHz/Dev at 444.95MHz (T) or 434.95MHz (E) and AF 1kHz.
MIC GAIN	© VR1	Enter the AF level of -46dBm, then pressing the PTT button, adjust VR1 so that you obtain 4.0kHz/Dev at 444.95MHz (T) or 434.95MHz (E) and AF 1kHz.
SUBAUDIBLE TONE DEVIATION (DR-590T)	© VR2	Pressing the tone button at 444.95MHz, verify 0.6-0.8kHz/Dev at tone frequency of 88.5Hz. Adjust VR2.
1750Hz TONE DEVIATION (DR-590E)	© VR2	Pressing the tone button, verify that the tone frequency is 1750Hz and the deviation is 3.5kHz ±0.2 kHz. Adjust VR2.
HELICAL FILTER	€ TC1, TC2 L1, L2	Connect the output of a tracking generator to the antena and spectrum analyzer to TP1 the adjust TC1, 2 and L1, 2 so that the sensitivity is at its peak between 440 and 450MHz at maximum gain. (570E: 430–440MHz)
DESCRIMINATOR	€ L3, L5	At 445.03MHz (T) or 435.03MHz (E) and 60 dB μ input, adjust L3, L5 so that the distortion is minimum at 50mW.
SQUELCH	© VR1	At 445.03MHz (T) or 435.03MHz (E) and cut the SG output power. Adjust squelch knob point by VR1.
S-METER	© VR5	At 445.03MHz (T) or 435.03MHz (E) and 3-dB μ [EMF], adjust VR5 so that 2 in the S-meter begins to light.

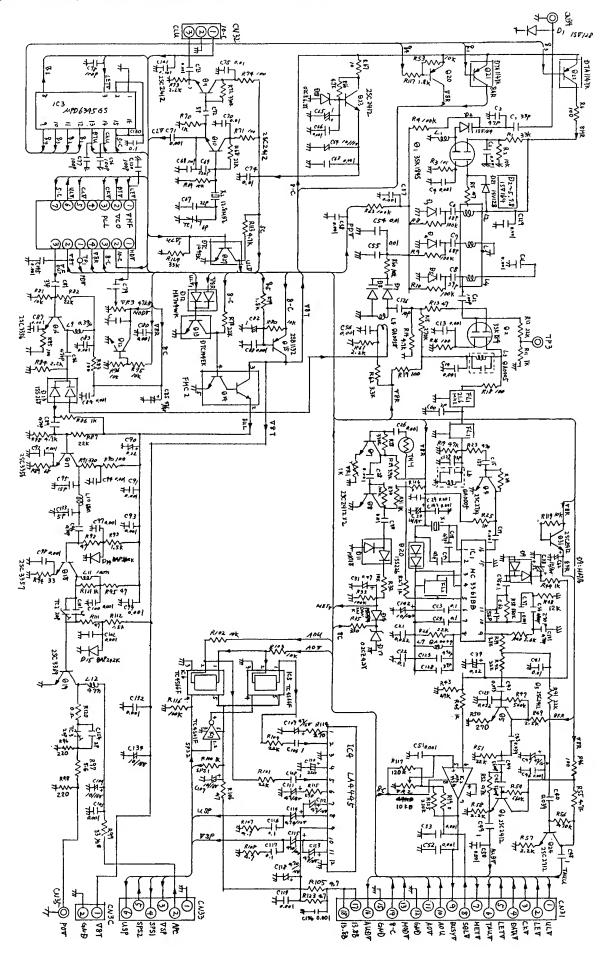


■ BLOCK DIAGRAM

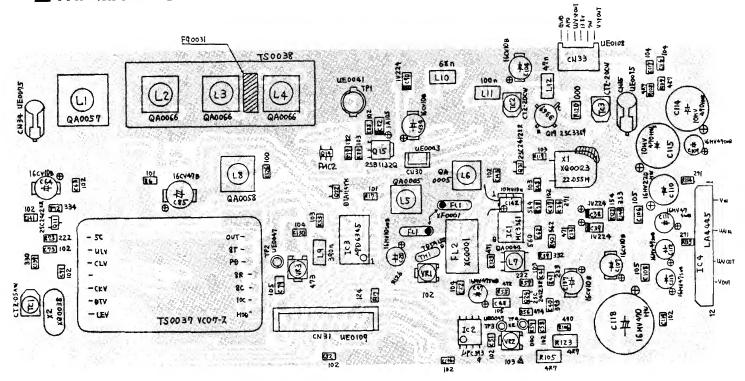


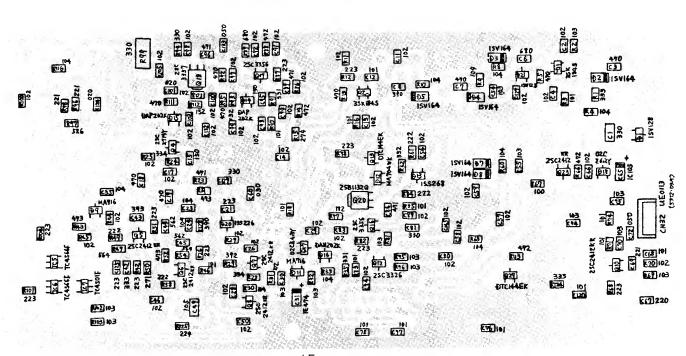


SCHEMATIC DIAGRAM OF VHF MAIN UNIT

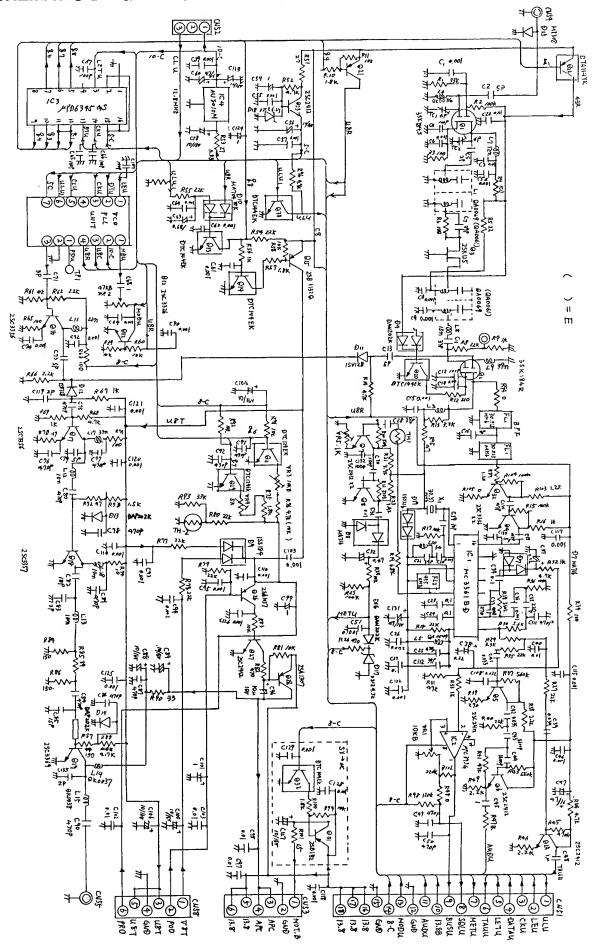


VHF MAIN PC BOARDS

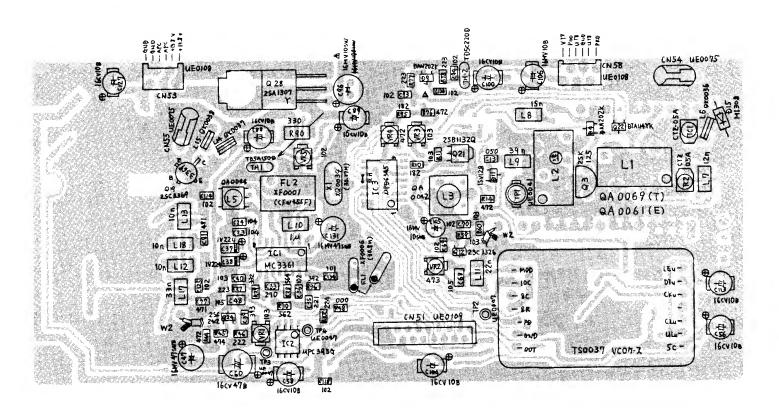


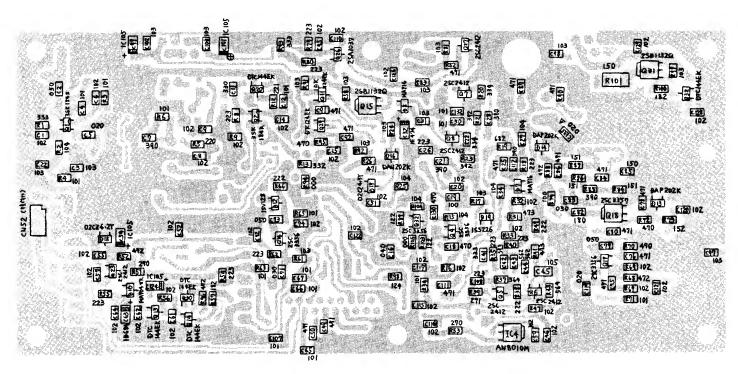


■ SCHEMATIC DIAGRAM OF UHF MAIN UNIT

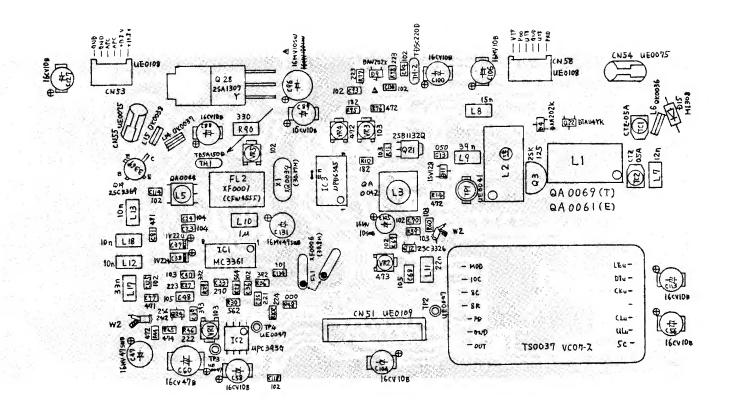


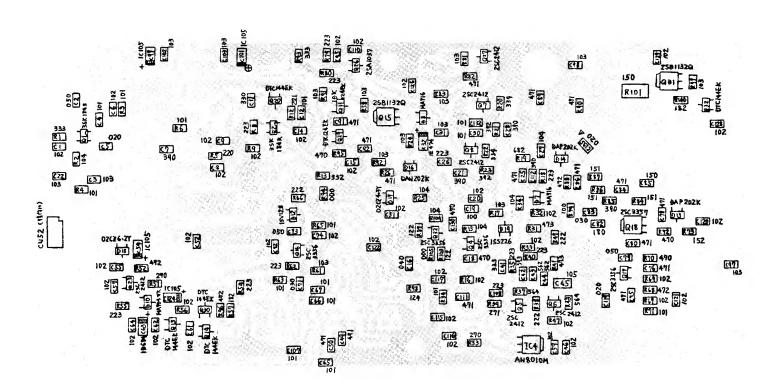
UHF MAIN PC BOARDS



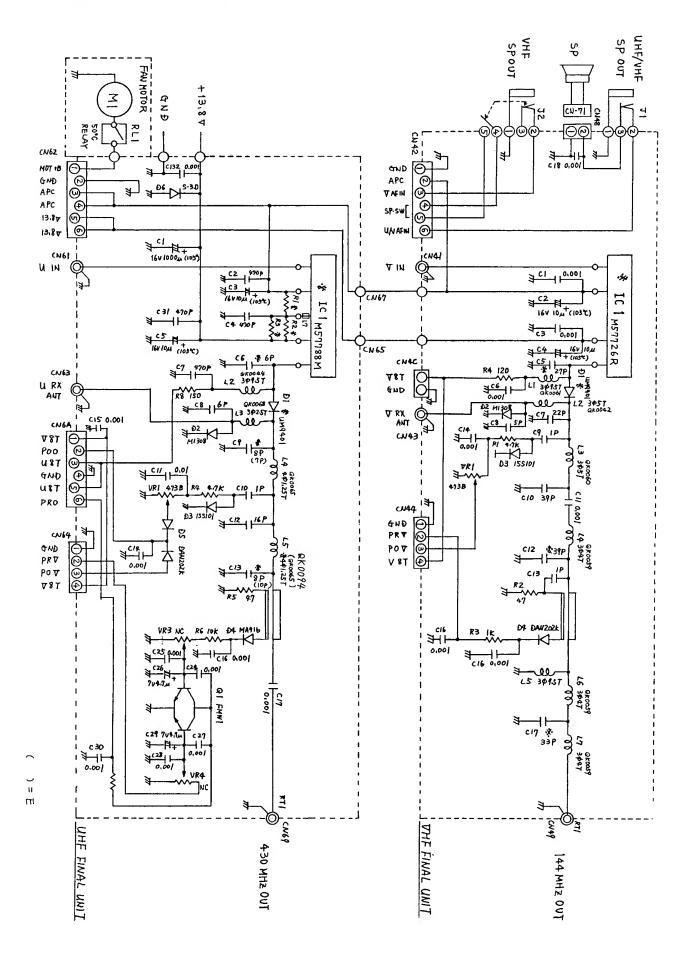


■ UHF MAIN PC BOARDS

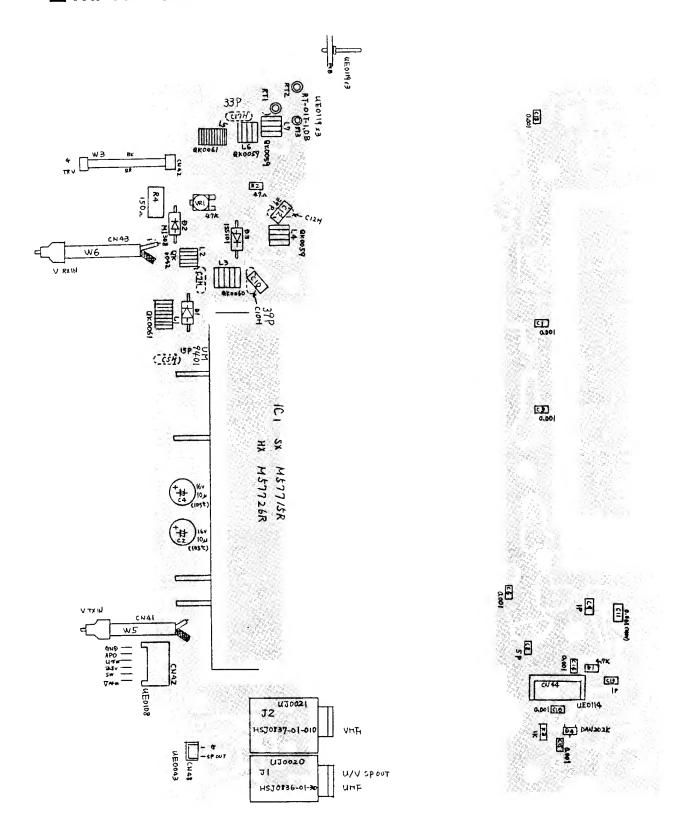




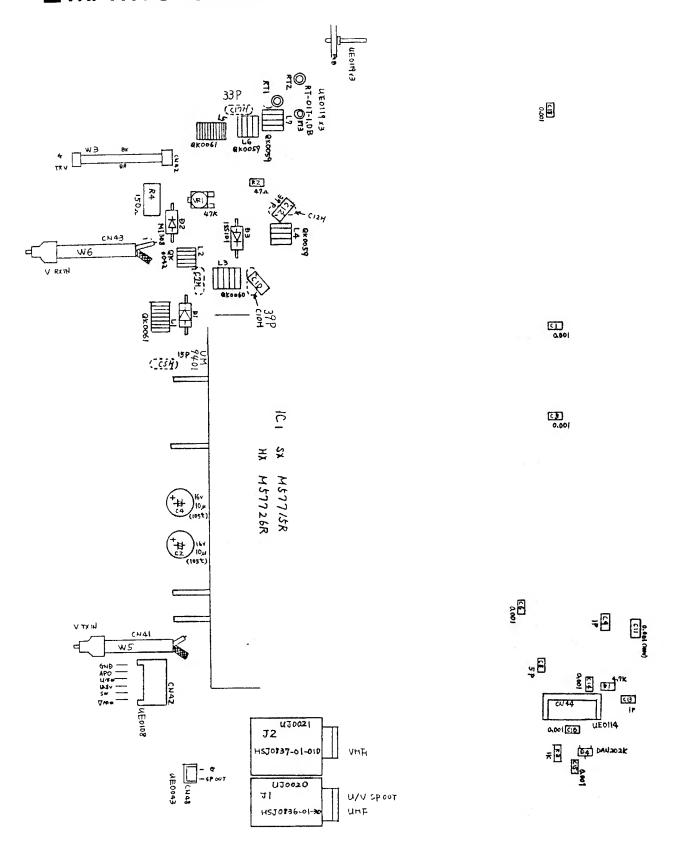
SCHEMATIC DIAGRAM OF VHF/UHF PA UNIT



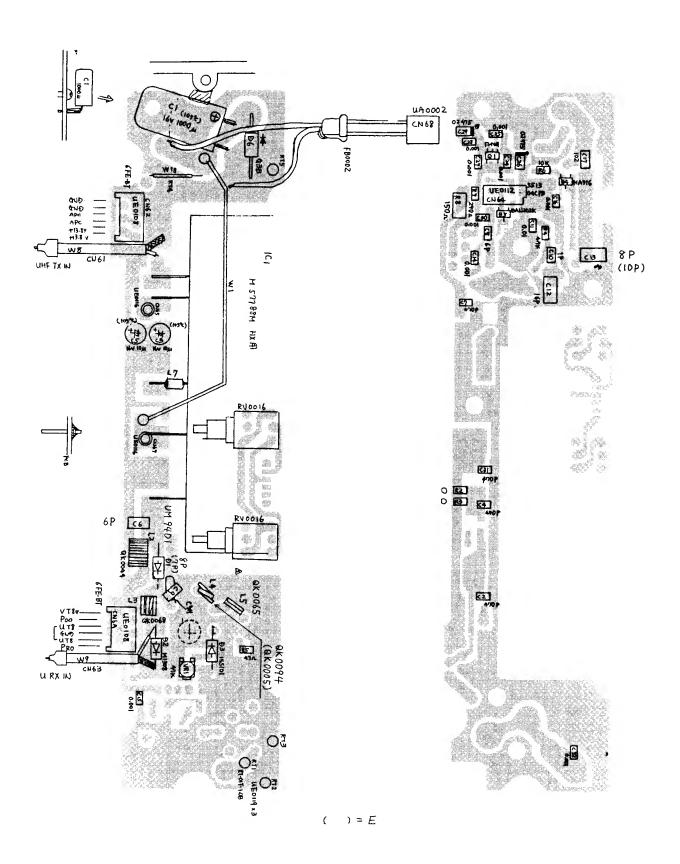
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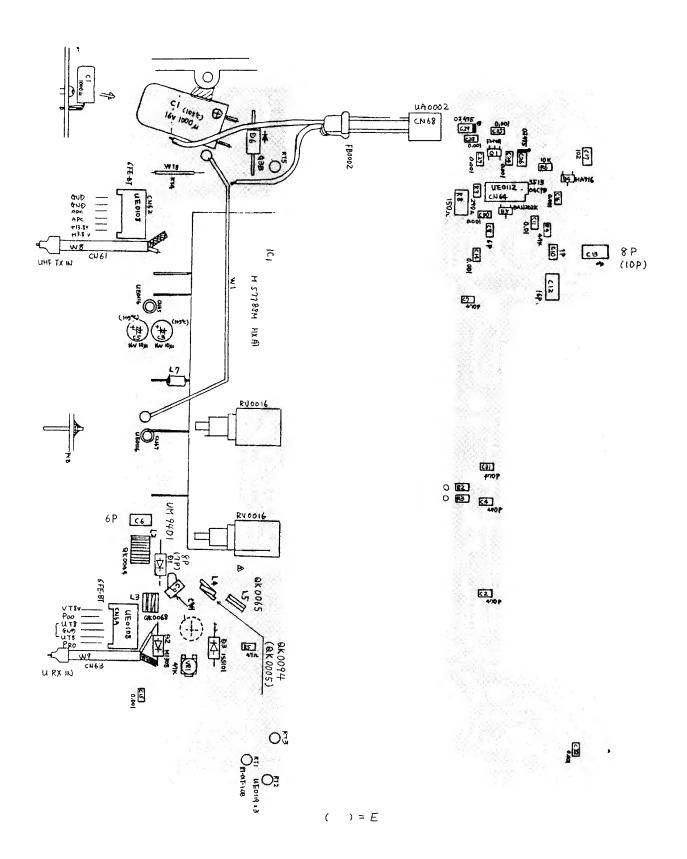
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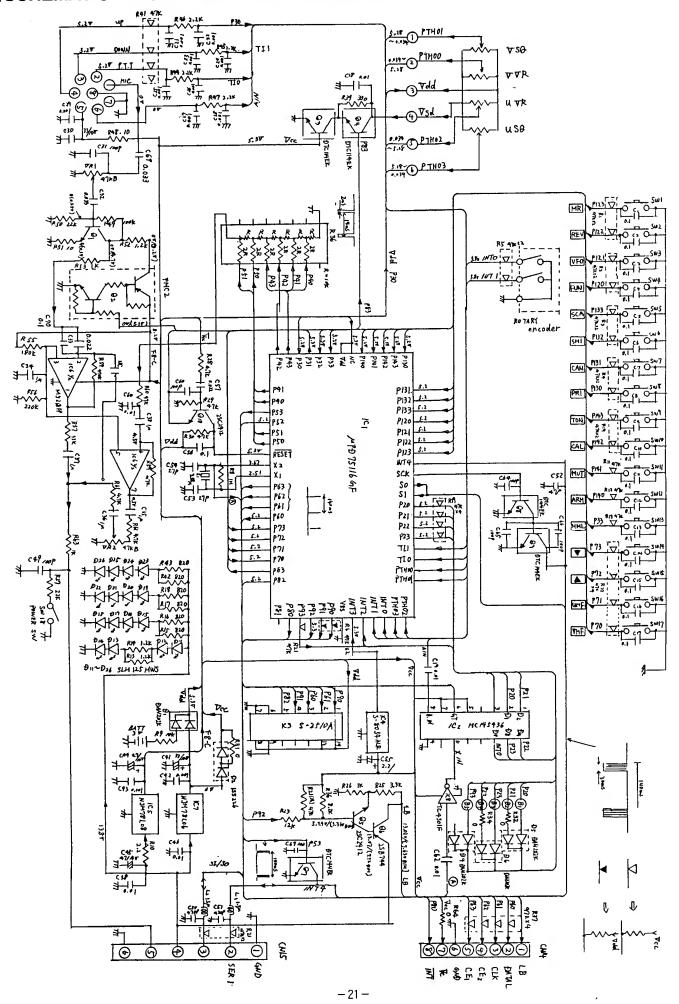
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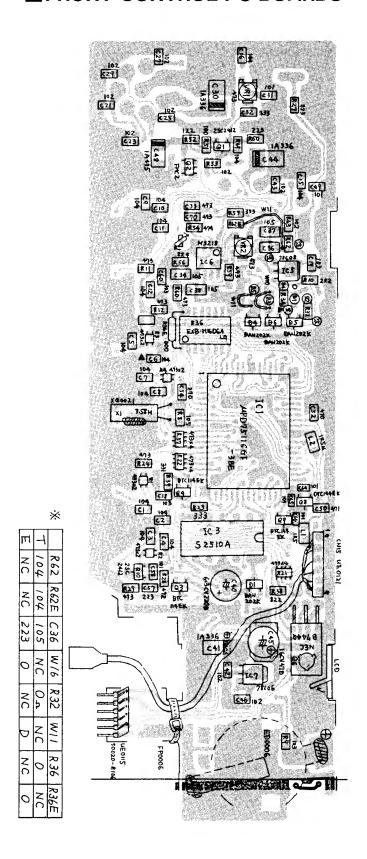
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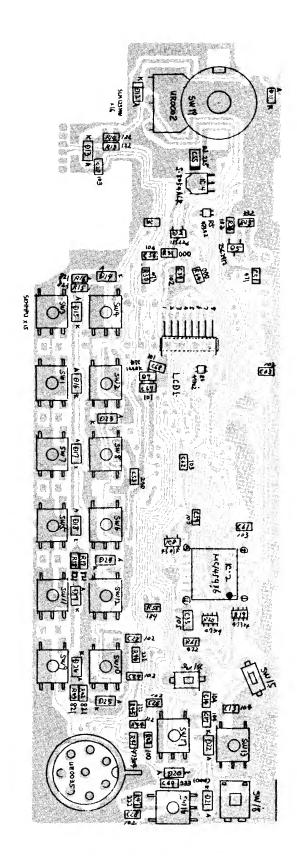


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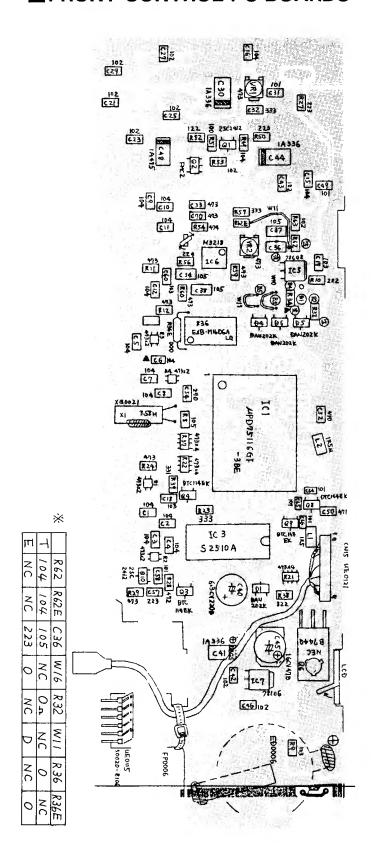


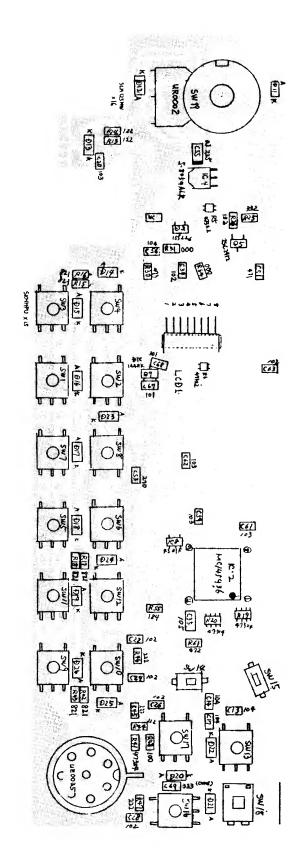
FRONT CONTROL PC BOARDS



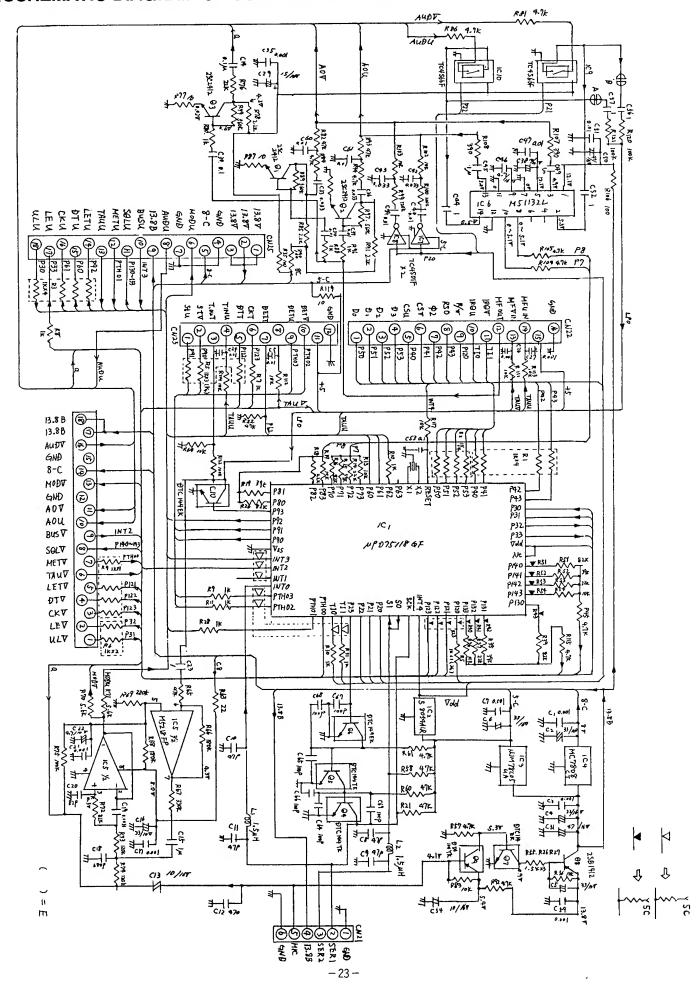


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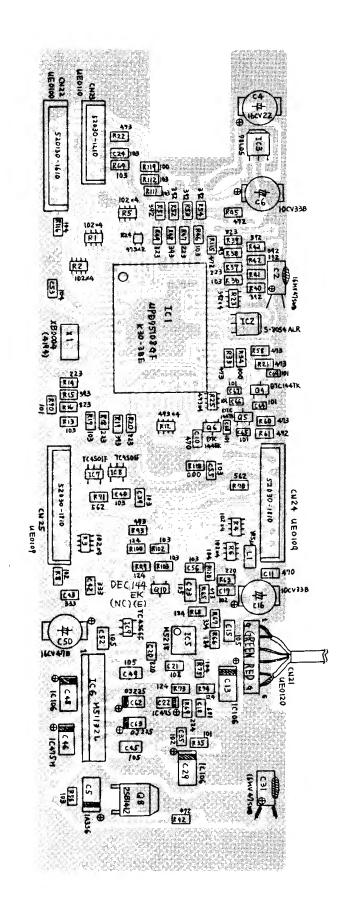


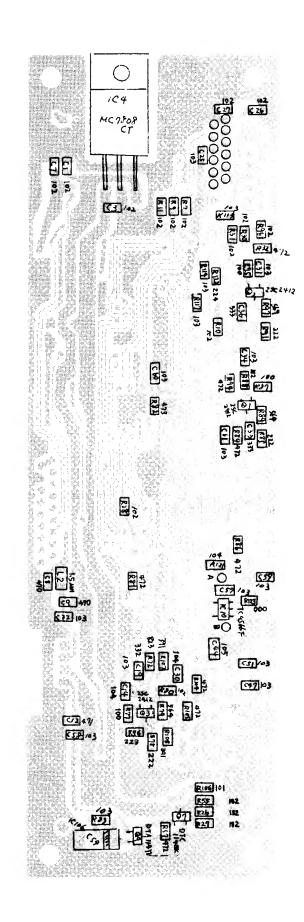


■ SCHEMATIC DIAGRAM OF SUB CONTROL UNIT

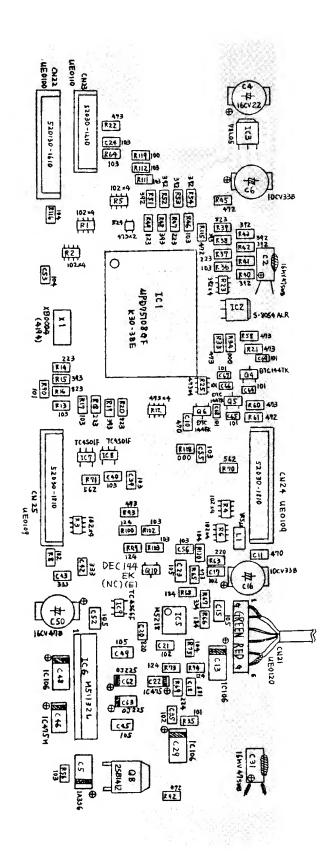


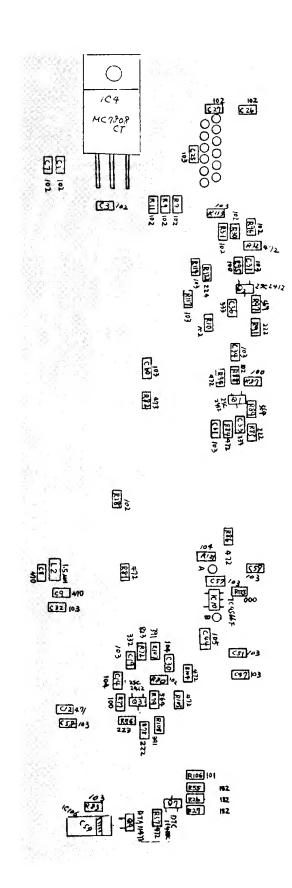
SUB CONTROL PC BOARDS



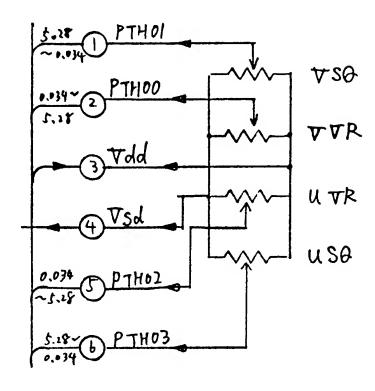


SUB CONTROL PC BOARDS

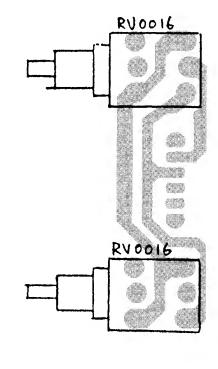




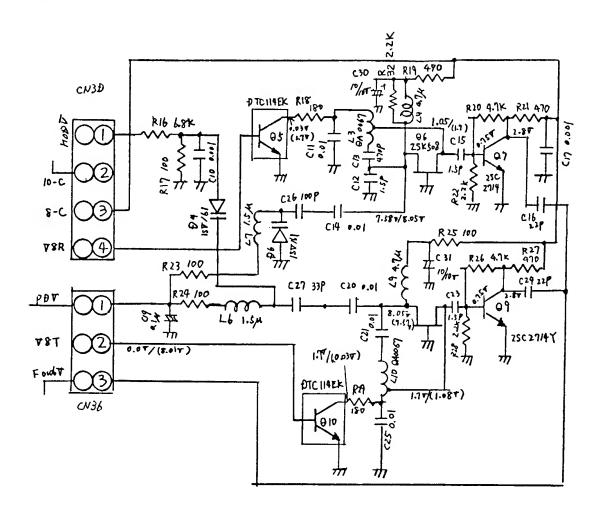
■ SCHEMATIC DIAGRAM OF VOL UNIT



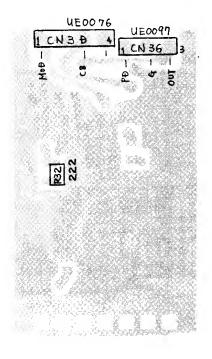
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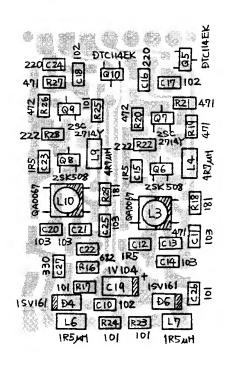


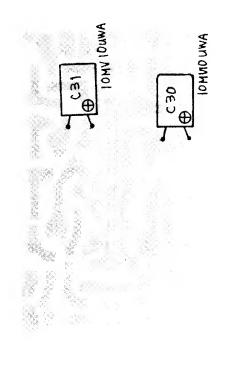
SCHEMATIC DIAGRAM OF VHF VCO UNIT



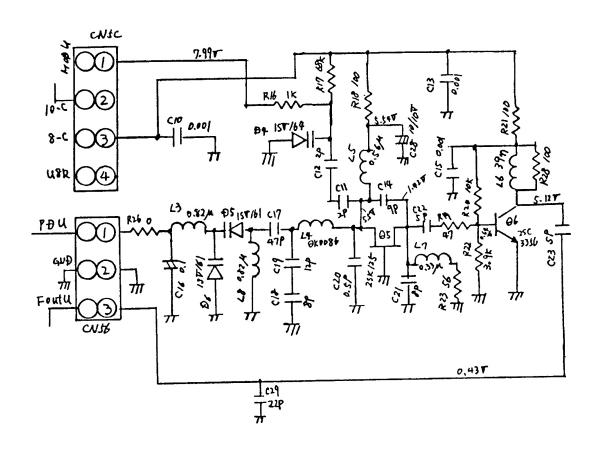
WHF VCO PC BOARDS



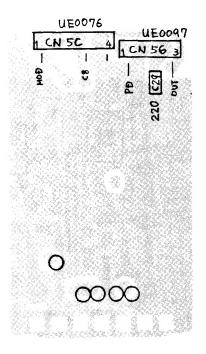


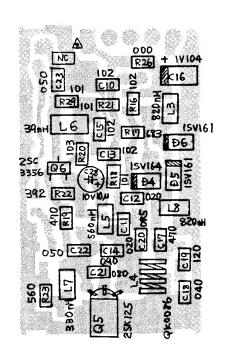


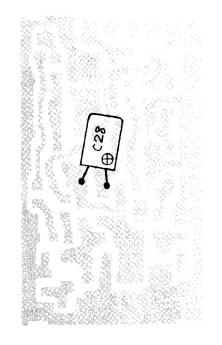
SCHEMATIC DIAGRAM OF UHF VCO UNIT



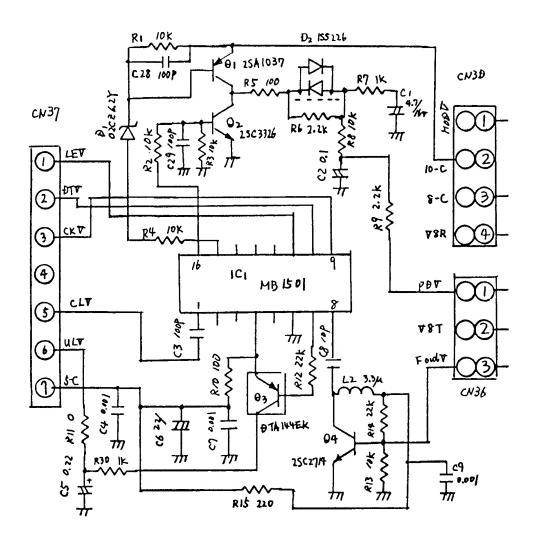
■UHF VCO PC BOARDS



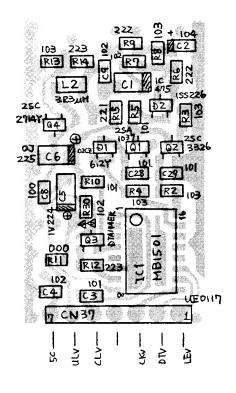


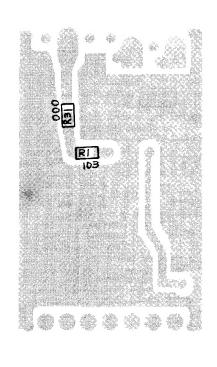


SCHEMATIC DIAGRAM OF VHF PLL UNIT

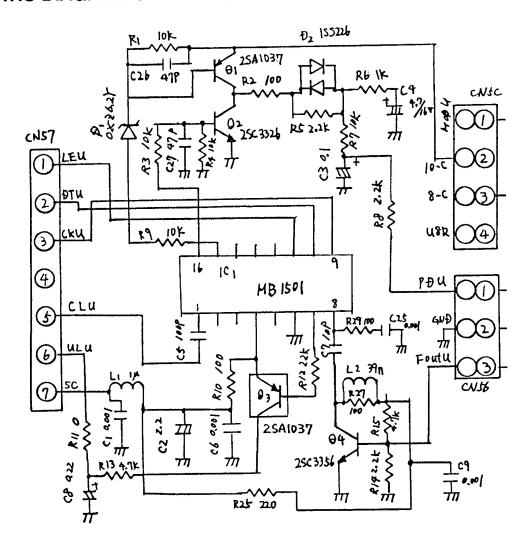


■ VHF PLL PC BOARDS

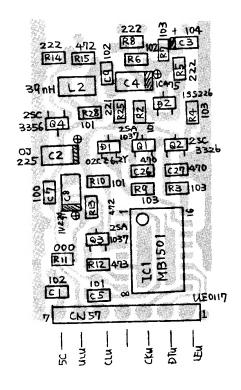


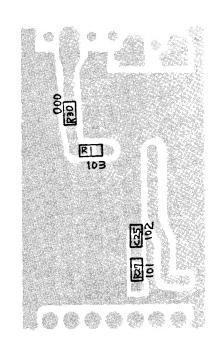


SCHEMATIC DIAGRAM OF UHF PLL UNIT



■UHF PLL PC BOARDS





ALINCO ELECTRONICS INC.

Head Office: "TWIN 21" MID Tower Building 23F

1-61, 2-Chome, Shiromi, Chuo-ku, Osaka No. 540, Japan

Factory: 1-1-1, Mishimae, Takatsuki, Osaka No. 569, Japan